Builders' Guide

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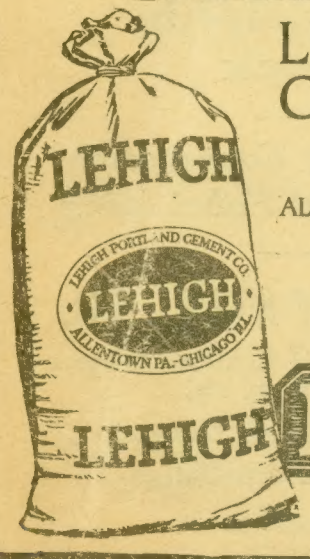
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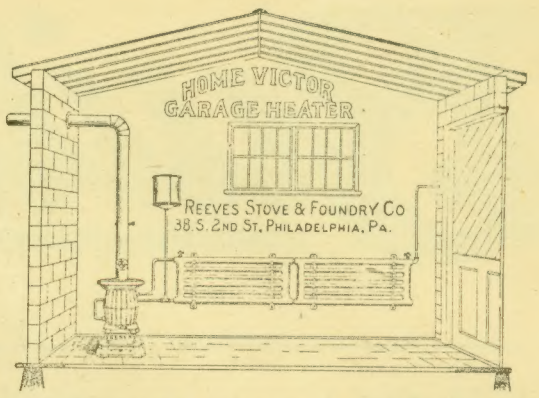
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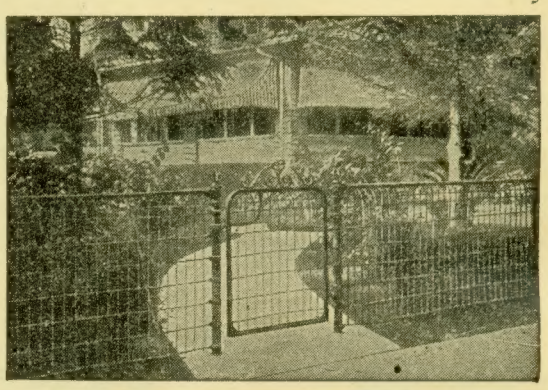
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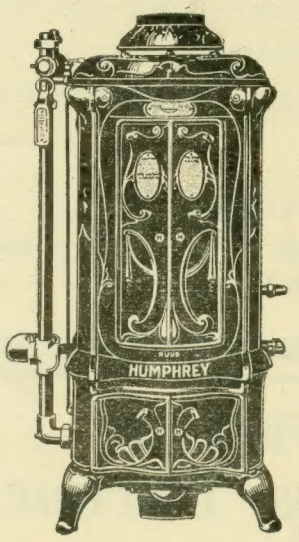
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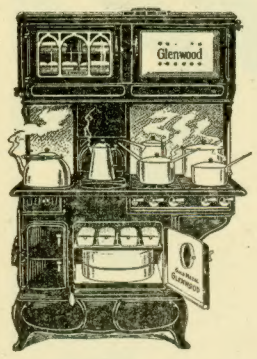
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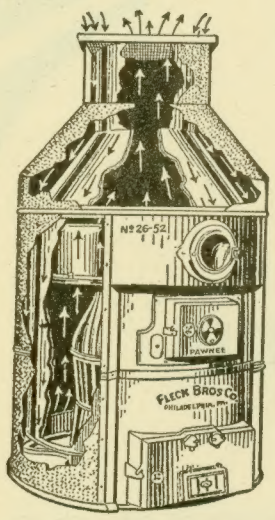


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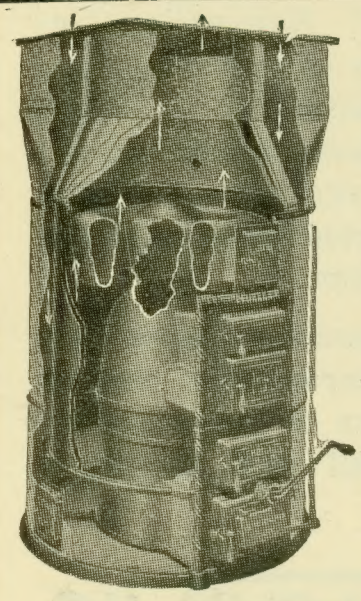
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
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January 7, 1920

BUILDERS' GUIDE

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As The Editor Sees It

SO much has happened in the Construction Industry in the last two years; events have followed each other so fast and close, that it is very difficult to view the situation as a whole and realize the full import of each phase of the situation. We all know that from a forbidden industry during the war, construction has risen to a foremost place among the industries of the country in the reconstruction period. That this sudden transition must entail much confusion and many difficulties is easy to see. "Economics of the Construction Industry," a book just issued by the United States Department of Labor, reviews as a whole the period through which we have just passed and contains a compilation of the surveys and analyses made during the first half of 1919 by the Division of Public Works and Construction Developments of the Department under the personal direction of F. T. Miller.

The subjects treated in this publication which are most interesting to the building trades are:

"The Decrease in the Puschasing Power of Money."

"Cost and Supply of Construction Materials."

"Labor and Wages in the Construction Industry."

"Sources and Supply of Capital for the Construction Industry."

"Rents and Land Values."

"Deferred Construction."

"Bibliography." (Presenting a very valuable list of references and authorities.)

"The function of the Information and Education Service," according to Mr. Miller, "had been to facilitate by means of educational publicity the transfer of labor and industry from peace to war production. When the armistice was signed and hostilities ceased, it clearly became the duty of the Information and Education Service to employ its means of publicity toward a restoration of labor and industry to a peace footing.

"Of the larger industries of the country the one which had been most severely curtailed was the construction industry, embracing public work and private building. Its prompt return to a condition of activity was a matter of public interest (1) in order to ameliorate the shortage of housing and of other private buildings, which was causing high rents and affecting the cost of living and of production; (2) in order to supply the deficiency in schools, hospitals, roads, water supplies, local transit and other public and semi-public utilities, the construction of which, and in many cases, the repair of which had been wholly or partly discontinued during the war; (3) in order to furnish employment to demobilized soldiers and industrial workers during the period of readjustment of the manufacturing industries.

In summarizing the work and conclusions the Department says:

"The instructions received by the Economics Section called for an investigation of those general economic factors which, taken together, determine the financial success or failure of a prospective investment in improved real estate and which consequently investors are in the habit of considering before undertaking the improvement of real estate. The division was organized to 'stimulate the interest of the Nation in public and private construction' with a view to the creation of buffer employment for labor during the period of transition of manufacturing industries from war to peace production. It was feasible and proper to stimulate interest in public construction on other grounds than financial profit, but as the responsibility for providing buffer employment was a responsibility of society as a whole, it was felt that the individual investor should not be urged to build except in obedience to normal private considerations. These differ somewhat according to the type of construction contemplated, but the most important is financial profit. It was decided, therefore, that stimulation of private construction should take the form of supplying authentic data to assist the individual investor to judge for himself whether or not it would be profitable for him to build.

(Continued on Page 15.)

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Building (alts.) and Garage, in rear of 1122-24-26 Moyamensing avenue. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Harry Brook, on premises. Brick and steel, 1 story, 45x46 feet, slag roof, cement floors, metal lath, iron work, stone foundations, steam heating, electric lighting, sheet metal work, carpentry, painting, glazing, plumbing, hardware. Architect has received bids.

Store and Dwelling (add.), 2405 South Broad street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Morris Mezey, on premises. Addition to present building. Brick. Owner taking bids. Pierce-Henon Co., Bulletin Building, are figuring.

Residence (alts. and add.) to Apartments, 5226 Ludlow street. Architect, E. Allen Wilson, 1218 Chestnut street, Philadelphia. Owner, J. Donovan, 38 South Delaware avenue, Philadelphia. Brick, 3 stories and third story add., stone foundations, hot water heating, electric lighting, tile work, slag roof, pine floors, cement work. Architect taking bids due January 14th at 10 A. M. Walter A. Evitts, 5022 Chancellor street; J. H. Hutt, 5909 Spruce street, and J. Sims, 5416 Chestnut street, are figuring.

Dwellings (alts.) to Stores, 935-37-39 North Fortieth street, Philadelphia. Architect, private plans. Owners, Pierce-Henon Co., Bulletin Building, Philadelphia. Flush bulks, electric lighting, tile and marble work, pine floors, slag roof, galvanized iron cornice, painting, plastering, steel work and ornamental iron work. Owners taking sub-bids due as soon as possible.

Factory (alts. and add.), Twenty-third and Locust streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Crane Ice Cream Co., Twenty-third and Locust streets, Philadelphia. Details undecided. Too early for details.

Residence, St. Martins, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, Mrs. William C. Hess, Jr., 1817 North Twenty-fourth street, Philadelphia. Hollow tile and stucco, 2½ stories, 30x50 feet, wing 20x30 feet, shingle or slate roof, electric lighting, hot water heating. New plans in progress.

Store Building, Eighty-fourth and Tinicum avenue, Philadelphia. Architect, Harold H. Sondheim, 2605 West Somerset street, Philadelphia. Owner, Julius Jordan, 8404 Tinicum avenue, Philadelphia. Brick and concrete, 1 story, 25x80 feet, slag roof, cement floors, stone foundations, brick work, mill work. Architect taking bids due January 8th from William R. Dougherty, 1610 Sansom street, Philadelphia.

Manufacturing Building (add.), Twentieth and Erie avenue, Philadelphia. Architect, private plans. Owner, Winfield S. Barnes, on premises. Reinforced concrete and steel, 4 stories, 100x300 feet. Plans in progress. Too early for details.

Hotel (add.), East side of Broad, South of Locust street, $1,750,000. Architect, Albert M. Gray, 1400 Broadway, New York City. Owners, Hotel Walton, care of Eugene G. Miller, president, Broad and Locust streets, Philadelphia. Brick, steel, stone and concrete, 24 stories, 67 feet 10 inches x132 feet, tile and cement floors, hollow tile, metal lath, elevators, concrete foundations, steam heat, electric lighting, tile, marble and terrazzo work. Plans completed and filed at Bureau of Building Inspection for approval.

Warehouse, Oxford pike and Griscom street, Frankford, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Hub Furniture Co., 4734 Frankford avenue, Philadelphia. Brick, 4 stories, 50x60 feet, slag roof, plank and pine floors, (1) elevator, steam heating, electric lighting, stone foundations, mill construction, hollow metal sash and skylights. Architects will be ready for bids in a few days.

Residences (30), Windrim avenue, between Eleventh and Twelfth streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Max Moskovitz, Sixth and South streets, Philadelphia. Stone and brick, 2 stories, 16x48 feet, garages, brick, 1 story, 16x20 feet, slag roof, oak and cement floors, stone foundations, hot water heating, electric lighting, tile and marble work. Owner will be ready for sub-bids in a few days.

Residence, Stable and Garage, North Wynnefield, Philadelphia. Architect, Edmund D. Salter, Parkside and Wynnefield avenues, Philadelphia. Owner, Mrs. Richard Kaelker, 964 North Eighth steret, Philadelphia. Hollow tile and plaster, 2½ stories, 49x43 feet, and 1½ stories, 25x43 feet, shingle roof, oak, pine and cement floors, metal lath, stone foundations (heating, plumbing, electric work and tile work reserved), iron work. Architect has received bids.

Experimental Shop Building, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, United States Government, care of Maj. Lumsden, Frankford Arsenal, Philadelphia. Brick, concrete and steel, 3 stories, 58x200 feet, slag roof, cement and maple floors, hollow tile, metal lath, elevators, waterproofing, dampproofing, stone foundations, rolled steel sash, kalamein and hollow metal doors, iron work. Owners taking bids due January 13th at 2 P. M. William R. Dougherty. 1610 Sansom street, and Ketcham & McQuade, 1029 Brown street, are figuring.

Residence. St. Martins, Philadelphia. Architect, H. L. Duhring, Jr., 1218 Chestnut street, Philadelphia. Owner, Dr. Julia F. Skinner. 3 Bethlehem Pike, Chestnut Hill. Stone. 2½ stories, 28x50 feet, shingle roof, pine floors, stone foundations, tile work (heating and electric work reserved). Architect is taking sub-bids due as soon as possible.

Church Building (int. alts.), Tenth and Wallace streets, Philadelphia. Architects, Stuckert & Co., 1420 Chestnut street, Philadelphia. Owner, St. Paul's Baptist Church, Tenth and Wallace streets, Philadelphia. Plastering, carpentry, mill work, metal lath, hardware, plumbing, electric lighting, tile and marble work, heating repairs, iron work. Architect has received bids.

Factory, Crawford street, East of Ridge avenue, $60,000. Architect, private plans. Owner, J. & J. Dobson, 810 Chestnut street, Philadelphia. Stone, 3 stories, 86x140 feet, steam heating, electric lighting, slag roof. Owners will build.

Residences (76), Fifty-fourth and Arlington streets, Philadelphia, $504,000. Architect, private plans. Owner, Martin Maloney, 2405 North Fifty-fourth street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x44 feet, and 16x29 feet, 13x15 feet, slag roof. Owner will build.

Residences and Garages (16), Rockland and Franklin streets, and Rockland street, Seventh to Eighth streets, Philadelphia, $152,000. Architect, private plans. Owners, Wolf & Linetsky, 736 West Moyamensing avenue, Philadelphia. Brick, 3 stories, 16x44 feet, and 2 stories, 16x29 feet, 13x15 feet, slag roof, hot water heat. Owner will build.

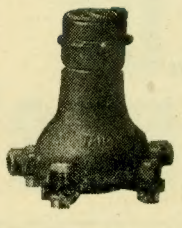
Twin Residences, Hortter and McCallum streets, Germantown. Architect, Andrew C. Bornzer, 717 Walnut street, Philadelphia. Owner, Robert Killough, Wayne and Duval streets, Germantown. Stone, 3 stories, 32½x50 feet, slate roof, oak floors, stone foundations, electric lighting, hot water heating, electric lighting, tile and marble work. Owner will be ready for sub-bids in a week.

Church and Sunday School, Seventieth and Buist avenue, Philadelphia. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, Board of City Missions of Presbyterian Church, Witherspoon Building, Philadelphia. Stone, 1 story. Plans in progress. Too early for details.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

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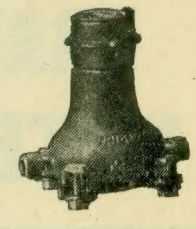
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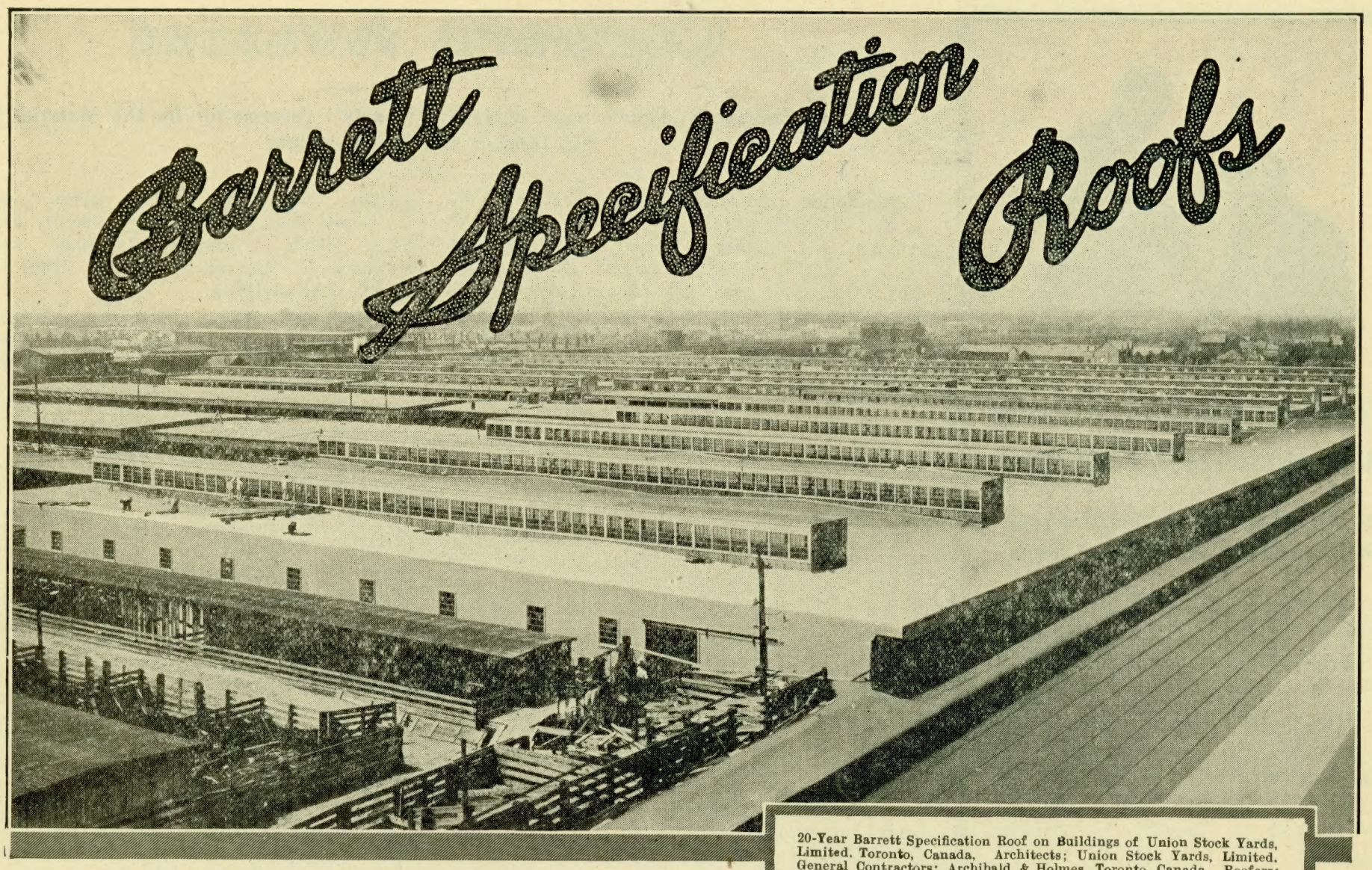
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alts. and add.), 1701 Diamond street, Philadelphia. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, Katherine L. Storm, M. D., on premises. Oak and cork tile floors, metal lath, carpentry, mill work, painting, glazing, hardware, brick and stone work. Contract awarded to Frank E. Wallace, 1220 Chancellor street, Philadelphia.

Factory Building, Northeast Corner Baynton street and Chelten avenue, $120,000. Architect, Frank V. Nickels, 4400 Main street, Manayunk, Philadelphia. Owner, Dearnlay Company, Manayunk, Philadelphia. Brick and concrete, 3 stories, 76x110 feet, slag roof, cement floors, stone foundations, rolled steel sash, fire doors, hollow metal doors, iron work, stone foundations (heating, light, elevator and plumbing reserved). Contract awarded to Hughes Foulkrod Co., Commonwealth Building.

Store Building (alts.), Front and Market streets, Philadelphia. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owners, A. Schulte Co., 386 Fifth avenue, New York City. Brick work, carpentry and mill work, sheet metal work, plastering, tile work, plumbing, electric work, steam heat, metal lath. Contract awarded to Pierce-Henon Co., Bulletin Building, Philadelphia.

Balcony, Thirty-second and Montgomery avenue, Philadelphia, $8,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Beth Israel Synagogue, on premises. Structural steel, metal lath, plastering, electric lighing, mill work, marble work, yellow pine floors. Contract awarded to Kober Const. Co., Middle City Building.

Warehouse, 964-68 North Front street, Philadelphia, $7,500. Architect, private plans. Owner, Esplor Realty Co., on premises. Brick, 1 story, 43x155 feet and 18x47 feet, slag roof, maple floors, electric lighting. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Building (alts.), Southeast Corner Twelfth and Walnut streets, $3,000. Architect, private plans. Owners, Estate of Samuel T. Freeman, on premises. Pent house, 6x7 feet, brick work. Contract awarded to Samuel S. Sanders, 519 Richmond street, Philadelphia.

Store and Dwelling (alts. and add.), 276 South Fifty-second street, Philadelphia, $2,000. Architect, private plans. Owners, Hanscom Bros., 734 Market street, Philadelphia. Brick, 1 story, 3x14 feet. Contract awarded to Warren E. Biscoe, 3954 Ludlow street, Philadelphia.

Warehouse (alts.), Northwest Corner Orianna and Willow streets, $3,500. Architect, private plans. Owners, P. Rudolph & Son, on premises. General alterations. Contract awarded to William K. Koelle & Co., Twenty-sxith and Oxford streets.

Store and Wareroom (alts.), 349 South Front street, $3,000. Architect, private plans. Owner, Isaac Rabinovitz, 346 South Front street, Philadelphia. General alterations. Contract awarded to I. Levy, 1404 South Sixth street, Philadelphia.

Store and Office Building, 1722-24 Ludlow street, Philadelphia, $27,000. Architect, private plans. Owner, F. P. Mellon Estate, 1712 Ludlow street, Philadelphia. Brick, 3 stories, 32x55 feet and 32x20 feet, slag roof, steam heating, electric lighting, maple floors. Contract awarded to Geo. C. Dougherty, 1725 Ludlow street, Philadelphia.

Building (alts.), Seventeenth and Vine streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owner, C. Albert Kuehnle, 11 South Sixteenth street, Philadelphia. Plastering, mill work, plumbing, carpentry. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

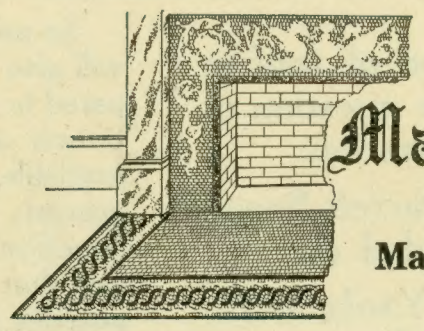
Store (alts.), 912 Walnut street, Philadelphia. Architect, E. A. Wightman, 1213 Filbert street, Philadelphia. Owner, Hastings Mackintosh Truss Co., on premises. Interior alterations, steam heating, repairs, new partitions, electric work, oak floors, new windows, hollow metal skylights. Contract awarded to Frank G. English, 1618 North Carlisle street.

Temporary Corridors Connecting Buildings, 616 South Broad street, $2,000. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, St. Mary's Church, on premises. Brick, 1 story, 16x6 feet, slag roof, plastering, brick work. Contract awarded to Jacob Myers & Son, Witherspoon Building.

Store and Dwelling (alts.), 6022 Market street, Philadelphia, $3,000. Architect, private plans. Owner, M. Caplay, Northeast Corner Fourth and South streets, Philadel-

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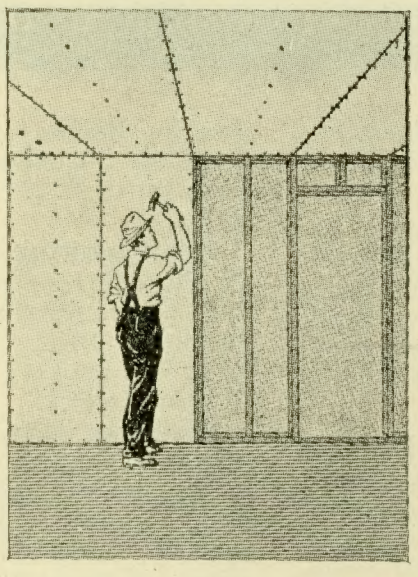
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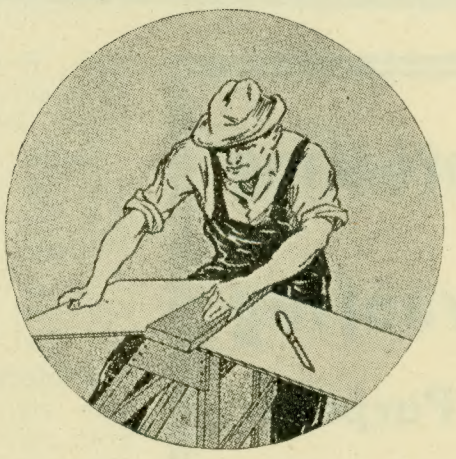
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phia. Flush bulk and general alterations. Contract awarded to Harry Platt, 511 Fernon street, Philadelphia.

Boiler House (add.), Jackson street and Twelfth street, $7,500. Architect, William F. Newberry, const. eng., Otis Building. Owner, William F. Read & Son, on premises. Brick, 1 story, 23x61 feet, slag roof, concrete floors. Contract awarded to William F. Newberry, Otis Building, Philadelphia.

Factory, Aramingo avenue and Huntingdon street, Philadelphia, $1000,000. Architect, private plans. Owners, John D. Lewis & Bros. Co., on premises. Brick and steel, 1 story, 121x180 feet, slag roof, cement floors, stone foundations, rolled steel sash, iron work. Contract awarded to Turner Const. Co., 1713 Sansom street.

Coal Pocket (fire repairs), 1320 North Second street, Philadelphia, $3,000. Architect, private plans. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. General fire repairs. Contract awarded to E. H. Keefer & Son, 1321 Rodman street.

Manufacturing Building (alts. and add.), 624-26 Cherry street, $5,800. Architect, private plans. Owner, J. S. Johnson Sons Co., on premises. Brick, 2 stories, 30x45 feet. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Residence (alts.), 337 South Eighteenth st., $6,000. Architect ,private plans. Owner, Dr. J. B. Deaver, 1634 Walnut street, Philadelphia. General alterations. Contract awarded to C. F. Wells & Son, 124 South Thirty-sixth street, Philadelphia.

Store and Dwelling (alts. and add.), 642 Ritner street, Philadelphia, $3,000. Architect, private plans. Owner, Harry Diemer, on premises. Brick, 2 stories, 10½x12 feet, slag roof, electric lighting. Contract awarded to M. Lesse, 816 Winton street, Philadelphia.

PENNSYLVANIA Construction News

Residence and Garage, Sewickley, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, T. McKee Graham, Sewickley, Pa. Hollow tile and stucco, 2½ stories, 30x80 feet, and 1 story, 22x30 feet. Architect taking sub-bids on vapor heating, composition flooring, tile work and electric lighting.

Silk Mill (add.), Allen street, Allentown, Pa. Architect, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Majestic Silk Mill Co., on premises. Slow burning construction, 3 stories, 66x217 feet, steel truss roof, wood floors, heating extension, electric lighting, rolled steel sash, fire doors, vault doors, stair case tower, roof ventilators. Plans in progress. Architect ready for bids.

Silk Mill, Pottsville, Pa. Architects, Jacoby & Eeverett, Commonwealth Building, Allentown, Pa. Owners, Phoenix Silk Mfg. Co., Race and Court streets, Allentown, Pa. Brick, mill construction, 4 stories, 150x50 feet, stone foundations, slate roof, plank and gumwood floors, electric lighting, rolled steel

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sash, fire doors, elevators, roof ventilators, waterproofing. Architect has received bids.

Silk Mill, Palmerton, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Read & Lovett Co., of New York, care of Mr. Thorp, Weatherly, Pa. Brick, reinforced concrete, 1 story, 100x50 feet, concrete foundations, trussed roof, concrete and gumwood floors, electric lighting, tile work, roof ventilators. Architect has received bids.

Residences (50), Forty Fort, Pa. Architect, G. S. Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Greater Wilkes-Barre Chamber of Commerce, 271 East Northampton street, Wilkes-Barre, Pa. Brick and hollow tile, 2½ stories. Preliminary plans in progress.

Silk Mill, Bloomsburg, Pa. Architects, Schmitt & Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, 1 story, 90x108 feet, slag roof, hardwood floors, steam heat, electric light, hollow metal sash, fire doors, roof ventilators. Plans in progress. Architect will take bids in two weeks.

Ice Cream Plant (alts.), Cliff street, Scranton, Pa. Architect, F. A. Nelson, Connell Buidling, Scranton, Pa. Owner, Williams Ice Cream Co., Cliff street, Scranton, Pa. Interior alterations, new offices, new ice tank (20 ton), ice storage. Plans in progress.

Residence (add. and alt.) to Apartment, 606 Clay street, Scranton, Pa. Architect, E. H. Davy, Coal Exchange Building, Scranton, Pa. Owner, M. H. Carpenter, Coal Exchange Building, Scranton, Pa. Brick, 3 stories, 10x32 feet, slate roof, new plumbing. Plans in progress.

Store and Office Building, Jefferson avenue, Scranton, Pa. Architect, Edw. H. Davis, Union Bank Building, Scranton, Pa. Owner, Scranton Gas & Water Co., care of Jeffery Sley, 115 Wyoming avenue. Brick, fireproof, 3 stories, stone foundations, slag roof, hardwood floors, electric light, tile work, rolled steel skylights, roof ventilators. Plans in progress. Bids will be taken in January.

Residence, Electric street, Scranton, Pa., $40,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, J. E. Crass, 1117 Electric avenue, Scranton, Pa. Hollow tile and stucco, 2½ stories, 76x80 feet, concrete foundations, tile roof, hardwood floors, steam heat, electric light, tile and marble work. Revised plans in progress. Architect will be ready for bids in January.

Green Tree (alts.), West Chester, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Sharpless Separator Co., West Chester, Pa. General alterations. Plans in progress.

Residence (also Garage), Melrose Park, Pa., $25,000. Architects, Greisler & Abramson, Lafayette Building, Philadelphia. Owner, Joseph Sionsky, 2223 North Thirty-third street, Philadelphia. Stone, hollow tile and stucco, 2½ stories, 40x50 feet, and garage, 2 stories, 25x25 feet, slate roof, oak floors, cement and pine floors, stone foundations, steam heating, electric lighting, tile and marble work. Architect taking sub-bids due January 15th.

Factory, Kingston, Pa., $75,000. Architect, D. A. Morgan, Connell Building, Scranton, Pa. Owner, Fromberg Silk Co., Scranton, Pa. Reinforced concrete, 2 stories and basement, 56x190 feet, slag roof, wood floors, steam heat, electric light, rolled steel sash, kalamein doors, waterproofing. Owner taking bids due January 10th. United Fireproofing Co., 8 West Fortieth street; Turner Const. Co., 242 Madison avenue; White Const. Co., 95 Madison avenue; J. W. Ferguson, 253 Broadway, and Thompson & Binger, 280 Madison avenue, all of New York City, and L. T. Stepp, Scranton, Pa., are figuring.

Church (add. and alt.), Adams avenue, Scranton, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, Trinity Lutheran Church, Rev. Maltas, on premises. Brick, 2 stories, interior alterations, organ loft and stairs. Architect has received bids.

Residence, Arthur avenue, Scranton, Pa. Architect, D. A. Morgan, Connell Building, Scranton, Pa. Owner, name withheld. Brick, 2 stories and basement, 43x28 feet, tile roof, hardwood floors, steam heat, electric light, tile and marble work. Architect has received bids.

Store (alts.), Market street, Scranton, Pa. Architect, Morris & McHale, Burr Building, Scranton, Pa. Owner, W. J. Leonard, on premises. General interior alterations, patent floors, marble work, plate glass. Architect has received bids.

Store (alt.), Spruce and Wyoming streets, Scranton, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owners, Rovalsos & Chakiris, on premises. Interior alterations, steel work, terrazzo work, store fixtures, metal ceilings. Architect has received bids.

Bridge, Hill to Hill, Bethlehem, Pa., $500,000. Architect, private plans. Owners, Bethlehem Bridge Committee, care of A. George Schaffner, Bethlehem, Pa. Concrete and steel, 1¼ miles long. Owners taking bids due February 24th. Arundel Corp., Finance Building, Philadelphia, is figuring.

Armory, North Queen street, Lancaster, Pa. Architect, not yet selected. Owners, State of Pennsylvania Armory Board, Harrisburg,

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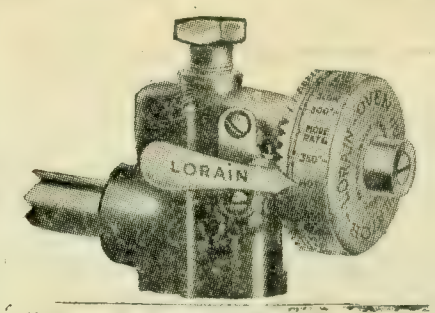


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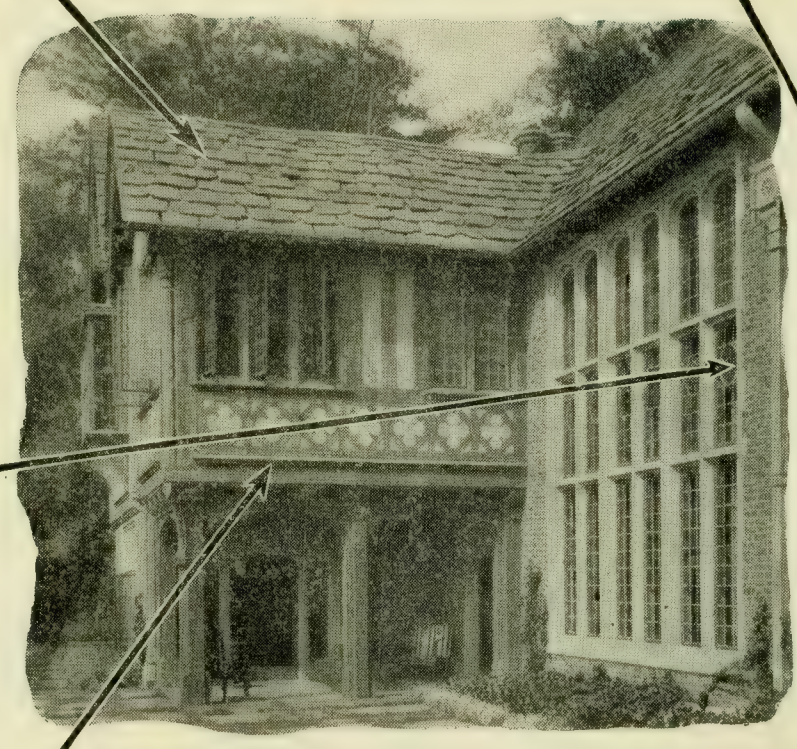
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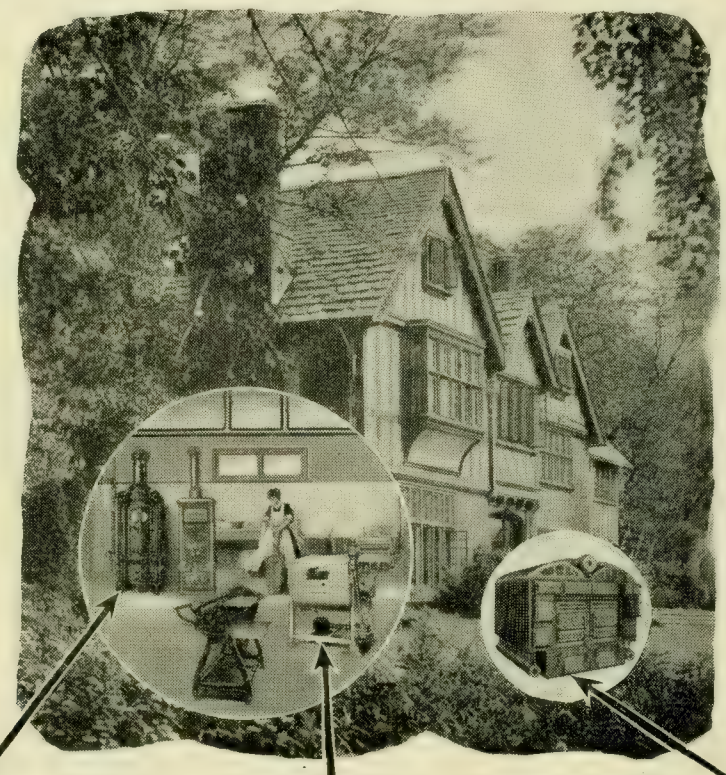


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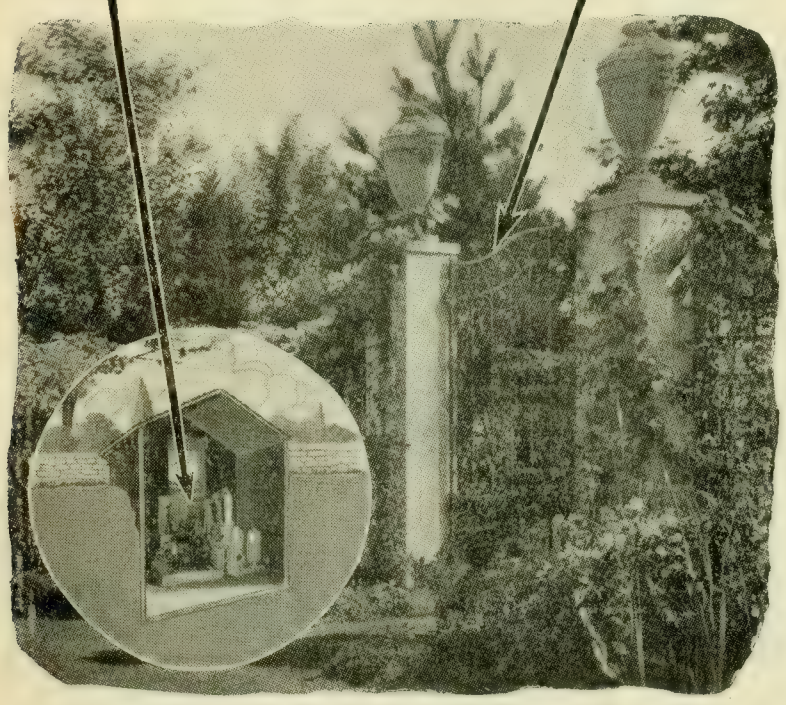
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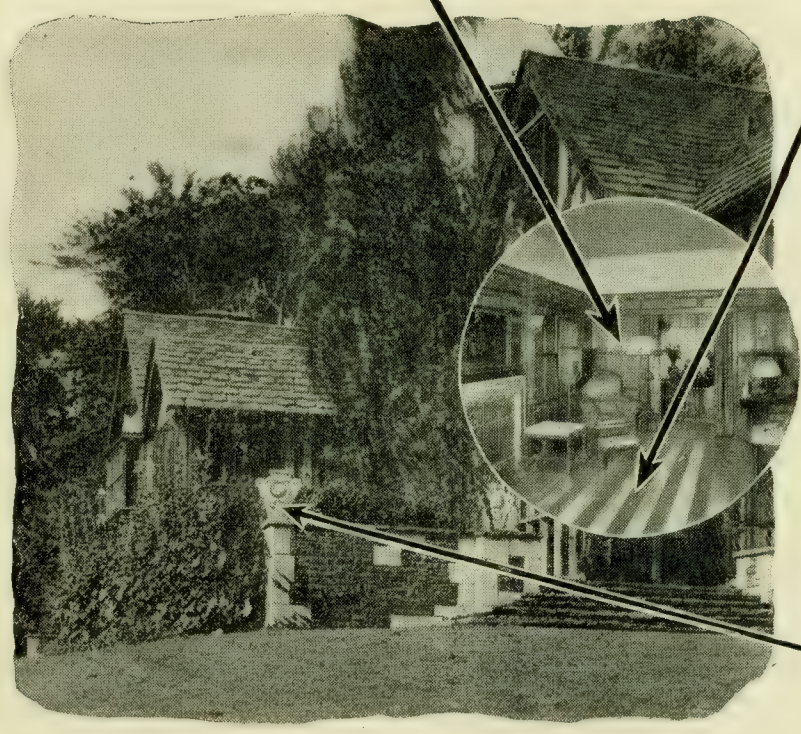
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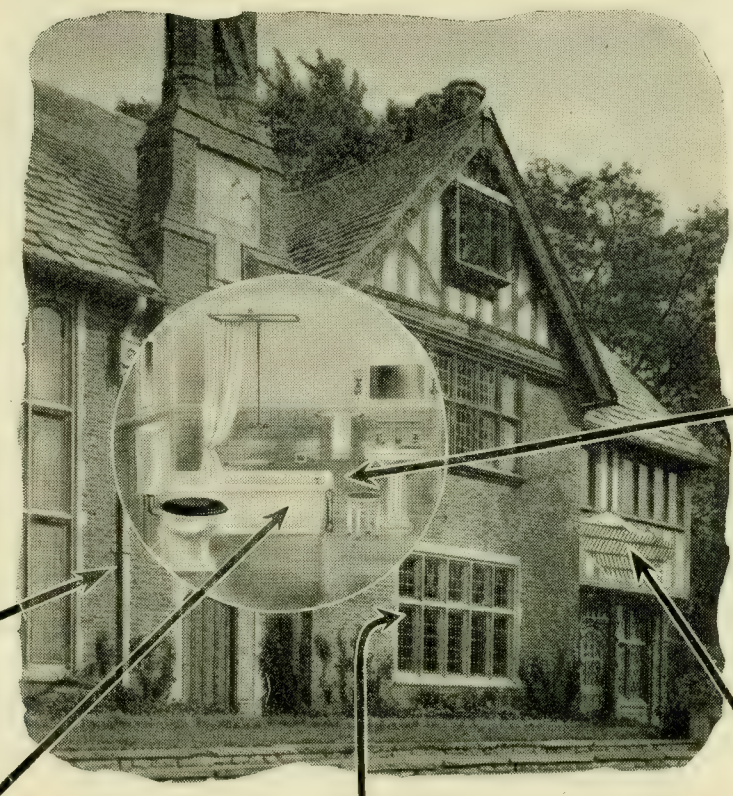


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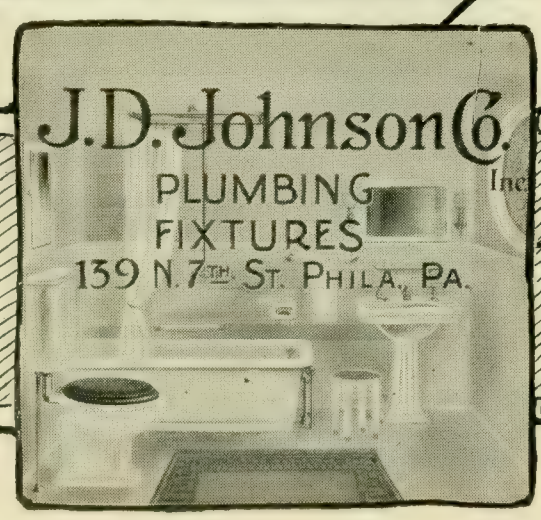


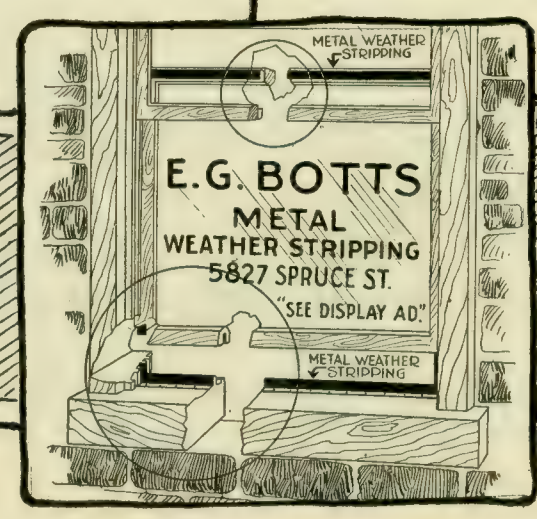
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Armory, Harrisburg, Pa. Architect, not yet selected. Owner, State Armory Board, Harrisburg, Pa. Brick, steel and concrete. Details undecided. Work contemplated.

High School, Harrisburg, Pa. Architect, not yet selected. Owner, School Board of Harrisburg, Harrisburg, Pa. Details undecided. Work contemplated.

Bridge, Harrisburg, Pa. Architect, private plans. Owner, Philadelphia & Reading Railway Co., Reading Terminal, Philadelphia. Work contemplated.

Convention Hall, Harrisburg, Pa. Architect, not yet selected. Owner, Zembo Temple, care of Colonel Charles E. Covert, Harrisburg, Pa. Work contemplated.

Office and Bank Building, Harrisburg, Pa. Architect, not yet selected. Owner, Commonwealth Trust Co., Harrisburg, Pa. Work contemplated.

Country Club, Harrisburg, Pa. Architect, W. L. Stoddart, 9 East Fortieth street, New York. Owner, Harrisburg Country Club, care of E. Z. Wallower, chairman, Building Committee, Harrisburg, Pa. Stone and brick, 2½ stories. Plans in progress.

Garage, Fernwood, Pa. Architect, Jesse T. Hoekstra, Presser Building, Philadelphia. Owner, William Lipkin, 1208 Arch street, Philadelphia. Brick, 1 story, 40x200 feet, slag roof, cement floors, steam heat, electric lighting, stone foundations. Preliminary plans in progress.

Residence, Broadway, between Merion avenue and Linden street, Merion, Pa., $25,000. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, J. S. Wilford, Merion, Pa. Stone, 2½ stories, 30x70 feet, slate roof, oak floors, hot water heating, electric lighting, tile work. Plans in progress.

Residences (2) and Garage, Wynnefield, Pa. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, name withheld. Brick and terra cotta, 2½ and 1 stories. Architect taking bids due January 17th. W. O. Springer, 1624 Latimer street; William R. Dougherty, 1610 Sansom street; F. B. Davis, 240 North Sixteenth street; Milton W. Young, Overbrook, Pa.; Specht & Sperry, Heed Building, and F. E. Wallace, 1220 Chancellor street, are figuring.

Residence, Baird, North of Hazelton avenue, Merion, Pa., $35,000. Architect, Walter S. Karcher, 34 South Seventeenth street, Philadelphia. Owner, Louis P. Muller, 206 Chestnut street, Philadelphia. Stone, 2½ stories, 50x50 feet, slate roof, stone foundations, hot water heating, electric lighting, tile and marble work, oak floors. Plans in progress.

Bungalow, Drexel Hill, Pa. Architect, private plans. Owner, Harry Wagner, Fourth and Walnut streets, Philadelphia. Hollow tile and stucco, 1½ stories, 30x42 feet, shingle roof, oak floors, stone foundations, hot water heat, electric lighting. Delaware County Const. Co., Clifton Heights, Pa., is taking sub-bids.

Dairy Building, Perkasie, Pa. Architect, William H. Timm, 728 Perry Building, Philadelphia. Owners, Crescent Ice Cream Co., care of architect. Concrete, 2 stories, 50x90 feet, slag roof, concrete floors, steam heating, electric lighting. Plans in progress.

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PENNSYLVANIA
Contracts Awarded

Boiler House, South Mountain, Pa. Architect, Charles A. Blatchley, eng., Drexel Building, Philadelphia. Owners, State Asylum for Chronic Insane of Pennsylvania, South Mountain. Brick and steel, 1 story, 49x66 feet, slate roof, cement floors, rolled steel sash, stone foundations (heating and electric lighting reserved). Contract awarded to J. H. Greiner & Co., Lebanon, Pa.

Store and Office, Hazleton, Pa. Architect, George Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, 2 stories, 25x100 feet, slag roof, pine floors, steam heating, electric lighting, tile and marble work, rolled steel sash, roof ventilators. Contract awarded to Sam Brasher, Hazelton, Pa.

Signal Tower, Battery House and Foundations, Myerstown, Pa. Architect, private plans. Owners, Philadelphia and Reading Railway Co., Twelfth and Market streets, Philadelphia. Brick, terra cotta and steel, 2 and 1 stories, 15x20 feet and 13x35 feet, slate and asbestos roof, cement floors, stone foundations, hot water heat, iron stairs and iron work, roof ventilators. Contract awarded to A. L. Carhart, Penfield Building, Philadelphia.

Theatre, Sixth and Gordon streets, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owner, Thomas Herity, on premises. Brick, 1 story, 40x120 feet, concrete foundations, slag roof, tile and concrete floors, electric lighting, roof ventilators. Contract awarded to W. H. Gangwere & Co., Allentown, Pa.

Garage, Overbrook, Pa. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owner, Mrs. C. Rockwood, Overbrook, Philadelphia. Stone, 2 stories, tile roof, cement floors, stone foundations, hot water heating, electric lighting. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Auto Body Factory, Clark Summit, Pa. Architect, T. A. Nelson, Connell Building, Scranton, Pa. Owners, Connell & Erben, Scranton, Pa. Mill construction, 1 story, 125x40 feet, composition roof, concrete and mill construction floors, hot air heat, electric light, roof ventilators. Contract awarded to Stairbird & Wagner, Scranton, Pa.

Factory (add), West Pittston, Pa. Architect, J. H. Davis, Coal Exchange Building, Scranton, Pa. Owner, Kimbel & Ensmerich, Scranton, Pa. Brick, mill construction, 4 stories, 52x60 feet, maple floors, electric light, rolled steel sash. Contract awarded to Turon Schwartz, Pittston, Pa.

Residence and Garage, Ardmore, Pa. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, William H. McCreary, Ardmore, Pa. Stone, 2½ and 1 stories, 80x39 feet and 22x20 feet, shingle roof, pine and cement floors, hot water heat, electric light, tile work, stone foundations. Contract awarded to Gray Bros., Rosemont, Pa.

NEW JERSEY
Construction News

Dirigible Hangar (alts. and add.), Spec. 4080, Cape May, N. J. Architect, private plans. Owner, United States Government, Bureau of Yards and Docks, Navy Department, Washington, D. C. Asbestos corrugated siding steel, 708x155 feet, asphalt-impregnated asbestos felt roof, composition floors, hollow tile, metal lath, waterproofing, concrete and wood pile, electric lighting, rolled steel sash and skylights, rolling steel doors, iron work. Owners have received bids.

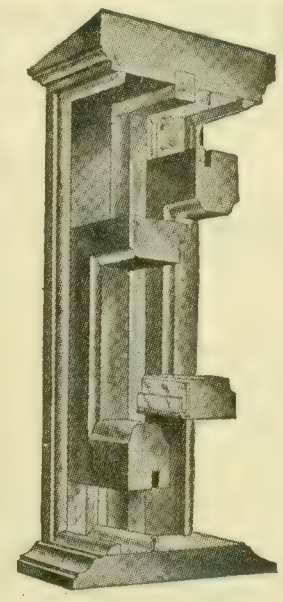
Residence and Garage, Rhode Island avenue, near Pitney avenue, Atlantic City, N. J. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owner, Edward C. Schmidheiser, care of architect. Brick and hollow tile, 2 stories, 25x75 feet, asbestos tile roof, oak and cement floors, stone foundations, hot water heating, electric lighting, tile work, iron work. Architect taking revised bids. P. O'Malley, 3 South Texas avenue; Samuel Dolinsky, 2 South Vermont avenue; P. G. Hannum, 16 North Georgia avenue; W. Beaumont, 12 South Tennessee avenue; Ralph W. Cavilier, 433 North Massachusetts avenue, and Newton W. Knauer, Hotel Chester Inn, all of Atlantic City, N. J., are figuring.

Residence and Garage, Swedesboro, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Isaac Bradshaw, care of architect. Hollow tile and rough cast, 1½ stories, 42x62 feet and 10x20 feet, tile roof, pine floors, metal lath, iron work (roofing, heating and electric work reserved). Architect has received bids.

School, Collingswood, N. J. Architect, Frederick J. Schwarz, Paterson, N. J. Owners, St. John's Roman Catholic Church, care of Rev. John J. O'Farrell, premises. Stone, 2½ stories, 50x80 feet, slate roof, stone foundations, pine floors, metal lath, tile work, stone foundations (heating reserved), iron work. Architect taking bids. John M. Yardley, 1716 Sansom street, is figuring.

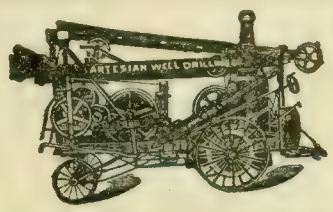
Residence, Mount Holly, N. J. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, E. E. Logan, Mt. Holly, N. J. Frame, 2½ stories, 24x56 feet, shingle roof, parquetry floors, stone foundations, hot water heat, electric light, tile work. Owner is ready for bids.

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(Continued from Page 3.)

"The provision of such data meant an investigation of the volume of deferred construction, of the recent course of construction material prices, of wages in the construction industry, of land values and rents, and of mortgage-loan conditions. As the financial soundness of a present investment in improved real estate depeds upon future earnings, an investigation of the economic factors just mentioned would have no practical value unless it revealed future tendencies. It was necessary, therefore, to compare prices and wages in the construction industry with prices and wages in general industry in order to show whether the former were relatively high or low, and hence likely to recede or advance in the process of adjustment to the general price level. It was necessary, further, to identify the principal causes of the rise in prices and wages during the war in order to balance those that were purely temporary against those that in the altered economic conditions brought about by the war must be permanent or semi-permanent.

"The investigation, while covering a rather wide field, required neither minute nor exacting research. It was extensive rather than intensive, designed to meet a definite trade demand for the latest information of a kind which the trade habitually uses. Most of the desired information, principally of a statistical nature, was already in eistence, collected by departments and bureaus of the Government, but not selected and compiled for our special purpose; and the rest was obtainable through questionnaires. Recognizing the urgent nature of the investigation by this section, the various Government departments and bureaus rendered assistance freely, in not a few instances permitting transcripts to be made of statistics and reports awaiting publication. This section, in turn, promptly released for publicity by the division all information of value which it received.

"The chief difficulty connected with the investigation was the short time available. If it was to serve the purpose set for it, the essentials of the investigation would have to be finished in two months, by the 1st of March. This was accomplished, and the present report is substantially a collection of papers, extended and amplified, which were used as sources for publicity by the division before March 1, 1919.

The more important findings of the investigation are the following:

1. *As to deferred construction.*

"A questionnaire relating to projects for which plans had been drawn but for which contracts had not been let prior to the armistice was sent out in January to 15,000 architects, engineers, public officials and others. The replies disclosed 6,472 deferred projects, estimated to cost $1,711,802,000, divided into 3,378 projects, valued at $481,062,000, for private owners and 3,094 projects valued at $1,230,740,000 for political and public-utilities corporations.

2. *As to recent construction.*

"The most complete construction statistics available cover contracts let for engineering and building construction north of the Ohio and east of the Missouri together with some adjacent area, containing four-sevenths of the population of the country.

"The contracts let in the first six months of 1919, compared with 1915 and 1916, run as follows:

	1919
January	$51,000,000
February	95,000,000
March	110,000,000
April	192,000,000
May	245,000,000
June	299,0000,000
	1915a
January	$70,000,000
February	79,000,000
March	122,000,000
April	124,000,000
May	125,000,000
June	149,000,000
	1916a
January	$87,000,000
February	92,000,000
March	131,000,000
April	140,000,000
May	182,000,000
June	195,000,000

aCosts broguht up to 1919 price level.

3. *As to prices of construction materials.*

"In April, 1919, the index number of construction materials, including steel, was 98 per cent. higher than in the year ended June 30, 1914; excluding steel, it was 84 per cent. higher.

"The index number for commodities in general was 10 per cent. higher in April, 1919, than in the year preceding the war.

"That is, building materials prices have rise nless rapidly than the general price level. If the price level stays up, the cost of building materials cannot well fall.

4. *As to wages in the construction industry.*

"The index number for union wage scales in 41 leading cities shows an advance of 28.5 per cent. since 1914. This percentage of advance is less than the

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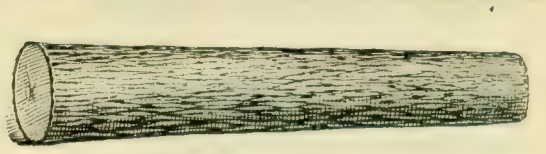
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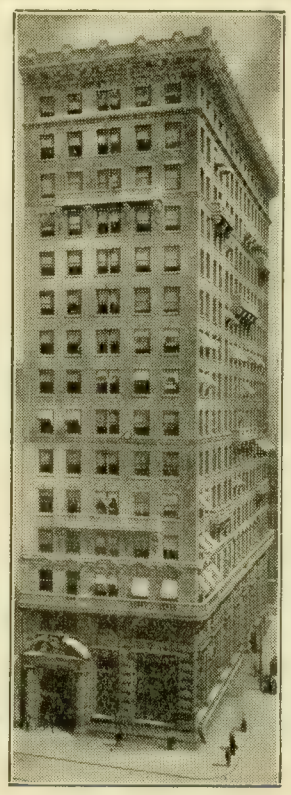
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percentage of advance in the cost of living or in wages in certain other industries.

"That is, if the cost of living and the general wage scale stay up, the cost of building construction labor cannot well fall.

5. *As to cost of construction.*

"The increase in the cost of construction varies with the type of project. It is somewhat more than 80 per cent. for a high-grade steel skeleton office building and somewhat less than 50 per cent. for dwelling houses and other buildings in which the metals group of materials is not so largely represented. It should be noted that neither of these increases is so great as the increase in prices in general, as indicated by commodity index numbers.

6. *As to land values and rents.*

"A questionnaire sent out in December brought replies from real estate boards in 91 cities. In 52 of the cities rents of residence housing (private dwellings, apartments, tenements) had advanced 10 per cent. or more, in some instances 40 per cent. to 50 per cent.

"Advances in rents of other kinds of property were unimportant.

"The market values of house sites had declined in six cities and had remained practically stationary in 72.

"Later information on rents and land values was sought through a questionnaire sent to 150 real estate boards throughout the country. Replies to this questionnaire were not returned in time to be of use in this report.

"In general it appears that rents, which have risen less rapidly than construction costs, are continuing to rise because of shortage of buildings.

7. *As to mortgage loans.*

"The main sources of real estate loans are savings banks, insurance companies and building and loan associations. Savings banks, insurance companies and building and loan associations have not grown so rapidly in resources as banks, other than savings banks, since 1913.

"The country's finances are well organized to serve (a) commercial needs, by commercial loans, the process being facilitated by the rediscount privileges of the Federal Reserve Banks; and (b) long term investment needs, by securities of guaranteed worth and of universal salability.

"The country's finances are not well organized to supply the demand for building capital through mortgages, the type of security almost universally used for obtaining such capital. The average mortgage is not of guaranteed worth, nor is it readily salable. Properly to finance the building industry, the standard form of long-term investment, namely, bonds, should be utilized more freely. Institutions are needed to hypothecate real estate mortgages and issue bonds against them. This has been done for farm mortgages through the Federal Farm loan banks; it is proposed for building mortgages through home loan banks and a proposed Federal mortgage bank. In that direction lies the best hope of the building industry for recovering the use of its former share of the Nation's capital. Another measure that has been urged on Congress is the exemption of limited amounts of mortgage loans from the operation of the income tax, to the end that these securities shall net as great a return to the investor as municipal bonds, Government bonds, farm loan bonds, and other similarly exempted investments."

STONE AS A BUILDING MATERIAL

By John Y. Dunlop.

Never before has any greater attention been paid to building materials, for it has come home to all classes that this is a matter which affects both rich and poor alike, and that unless all of those whose business it is to produce building material get set agoing at once, we shall soon be suffering from a greater shortage that at present.

Quarry masters, whose occupation and livelihood have been dependent on the production of stone, have not been fortunate in getting the ear of the public, with the result that they have been watching and waiting and surveying with certain misgivings the indifference which seems to have so far been displayed toward their contribution to the production of building material which they are willing and anxious to make.

There is no lack of good sandstone or limestone in England and experts still tell us that stone has never been surpassed as a building material. In the stone districts, previous to the war, one would not have dared to suggest to build a house with another material. Even the smallest cottage had its stone front and gables and the stone chimney was one of the crowning features of the way-

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side cottage in those districts.

No one, with any experience of the building trade, would think for a moment that the formation of a stone opening could be done so cheap as the building of brick sides and lintel of a window. But this I do know, that taking a large area of stone wallings of a good type and, if compared with a brick wall of good stock brick, the difference in cost was not worth considering.

Why then has this class of work disappeared so completely from among a class of builders who were so much wrapped up in it previous to the war?

This great industry is one of the oldest in our own country and to those of the trade who have visited the Old Country, the splendid stone buildings which have been seen, give evidence that stone in the building of our houses and other buildings has always been an important material. It is an industry which has employed thousands of workmen and trained hundreds of apprentices every year.

The principal stones which were quarried in Britain before the war were granites, marbles, limestones, and sandstones. Other kinds of stone were used in the construction of walls, but only in the immediate neighborhood of the quarry. The use of granite in building except in the neighborhood of the quarry is almost restricted to ornamental features.

Limestone and sandstone are the principal building stones used in the British Isles. Marbles are used for ornamental purposes, as the best varieties are too expensive for general construction.

Stone walling, whether of sandstone, limestone or granite, is named according to the shape and finish of the material. The principal kinds are rubble, square rubble and ashlar, and each of these has several subdivisions.

The strength and imperviousness of masonry walls depend very much on the quality of the mortar used. If the mortar is not good a wall is bound to be more or less unsatisfactory.

Flints and igneous rocks are exceedingly dense, non-absorbent and practically proof against atmospheric attack.

Uncoursed rubble, with hammer dressed joints, is generally known as rustic work. Frequently rubble walls are finished externally with stucco. The stones on the exposed angles of the walls are usually made to project and the stucco work finishing flush with the stone, thus forming a quoin effect.

Square rubble gives a better and neater kind of work than random rubble. Sandstone lends itself very readily to this treatment.

In most of the well-known sandstone quarries the rock splits naturally into slabs from 6 inches to 7 inches thick, and the slabs are then cut to the required breadth, usually 6 inches. The quarry companies prepare the stones ready for building in two ways; with a face which is machined fairly smooth, or rock-faced, which is left with rough projections, but has the joints pitched to a line formed with the hammer and pitching tool or chisel. The rock-faced stone wall is usually more expensive than the other.

With snecked rubble there is a great variety of stones having different depths, thus breaking the horizontal courses into short lengths. The small stone at the end of a course is known as the sneck, and the stone with the deepest face is known as the riser. Often the risers are specified to be of 11 inches or 12 inchees, which means, then, that the courses used in that particular job will be 5 inches and 6 inches, or 5 inches and 7 inches.

Ashlar stone walls are usually built with freestone. That is, any class of stone which works freely under the tools. The different kinds of finish given to ashlar stone walls on the face may vary from rough rock-faced to the finest tooled and the smoothest rubbed.

The vertical joints of hand-wrought ashlar stones are very often scamped on the back. That is, they are seldom squared back far enough, which often leads to damp walls. Bed joints are known to have been wrought in the same way, which may lead to the cracking of stones, due to the weight being concentrated on the edges instead of over the whole bed.

Our early builders were sorely tried in their attempts to build dry walls of porous material, and in districts where the west winds were so fierce that the trees took a permanent set to the east, the difficulty was great.

The sandstones, although hard and durable, are undoubtedly porous. So porous sometimes that rain is driven through the stones, and bubbles come out and trickle down the back of the stone.

The usual defects in the construction of such work are inward sloping bed joints and through bondstones. Two bondstones are better than one in the most of cases, and square joints which have a uniform thickness of bed is a cure for the most of dampness. Another practical defect is the absence of a damp-proof course.—*National Builder.*

THE ARCHITECT AND THE DRAFTSMAN.

By Victor Eberhard,

Magaziner and Eberhard, Architects, Philadelphia.

The draftsman who went to war has failed to return to the drafting-board; they say he has found more congenial employment and better pay elsewhere.

The architect is busy again and needs him; he must have him, in fact, and a substitute cannot be developed overnight. What is he going to do about it? There is but on ready answer: "Get him back to the board." Does this mean that he should be looked up and argued with? That's hardly practicable. The answer is that draftsman's job should be as attractive and as well paid and have just as many possibilities as similar jobs in any other line. If it is not so now it should be made so.

For a man to become a capable draftsman means a serious effort, years of hard work, often overtime work, and generally a real liking for the business. He should be able to do better for himself by using this knowledge and ability than in doing anything else. He will not leave it for something else if it gives him somewhere near the return his brothers in other lines are obtaining.

The fact that so many draftsman have refused to return to the drafting-room after leaving the army is an indictment against architects, their offices, and the methods which architects have employed in dealing with draftsmen.

Is it possible that the draftsman job has not been as desirable, either from a point of view of pay, pleasant working conditions, or for future outlook, as the jobs of men in other lines of work? It is not only pssible, it is and has been a fact since the writer can recall. It is not the fault of the draftsmen; they have been as good as other workers. It is distinctly the fault of the architects. They have failed to accomplish anything for themselves as a body, they failed in the conduct of their individual offices. They have lacked vision; they have not known the meaning or value of co-operative effort or of how to obtain individual effort. They have been selfish and short-sighted and have not allowed themselves or their men to extend to their fullest. The result of all this is that they have wasted a great percentage of their own work and that of their men. The returns for all have been small, and for all the outlook has been unpromising, the profession abused; and, worse yet, our ar-

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chitecture is the mirror in which all this discord and failure is reflected.

The architect first of all should try to get a distant view of himself and his office in relation to other business, he should try to see his office as an integral part of a business system or order such as he would wish to subscribe to, one that is based on honesty and fairness and congeniality. He should question whether is office is representative as a unit of such system. He should feel his responsibility. A million like him seeking to be right would go far toward making this country the right sort of place. He is one of the million.

Does he realize, and act as if he did, that the men working for him are of the same clay as he; that for every ambition that he has, for every aspiration, the man in his drafting-room has one to match; that as he finds it pleasant and stimulating to have his experience broaden out, so also does his draftsman, and that the one the same as the other becomes stifled when one day is just the same as the one before and the one after.

Now, having thought this over, he might call into his private office one of his draftsmen who has been diligent and tell him he is satisfied with his work, and for him to carry on, that he should not be ambitious to leave and go into business for himself unless he is willing to take a hundred chances, but that his ambition might better be in the way of making himself more useful and necessary to the office, and the office would, in turn, stand by him.

Having said this, how about outlining just what the office is going to do for this draftsman? Let him keep his job and give him a raise once in a while? That's not enough. He has a little more coming to him than that. It's not just a case of a job with this sort of man. It's his life's effort he is giving. He has a right to expand this effort to his limit. Mr. Architect must realize this, if he wants the best out of his man, and act accordingly. He must think of his draftsman as his brother architect. That's the keynote. Some time the one is the better man, some time the other; there's no rule. His draftsman is working with him, not for him.

On the one hand, it is a plain business proposition. The architect allows his draftsman to do his best because it will pay him best. On the other hand, it is the decent thing to do. It is the "esprit de camaraderie" in its best terms.

There is necessary a better understanding between the architect and the draftsman; the draftsman to learn more of the point of view and the troubles of the architect and the architect to know his draftsman better. So long as either believes this is not worth while doing the profession will have a handicap; but if accomplished it will prove in just the same proportion a big help.

Prospects for construction activities in 1920 are exceptionably favorable, says the *American Contractor*. The demand for all kinds of buildings is greater than ever. Highway construction is to be undertaken on a scale heretofore unknown. Railroad extensions and improvements can not be deferred much longer. It has been estimated by one authority that four billion dollars must be spent on our transportation lines before they are brought up to current requirements.

Of course, the great handicap in the construction field is construction cost; the price of materials and labor. In the long run these will prove of some permanent benefit to the construction industry, for they have forced contractors and the professional elements in the construction world to apply themselves to improving management and methods to effect economies. The larger contracting firms are figuring out new, better and cheaper ways of doing work. These forced improvements are permanent additions to the knowledge and practice of the industry; they will remain with us when prices are not so high. In this sense the construction cost level is proving a blessing.

Authorities appear to be agreed that we may expect no recessions in wage levels during 1920. Labor is the major factor in construction costs and if there is to be a noticeable reduction in construction costs, other than the reduction incident to improvements in management and methods, it must come from an increased efficiency in labor.

It is obvious to all who have studied conditions now prevailing in the United States that there is a labor shortage. The only possible way we can make up the deficiency of goods resulting from the war and take care of current demands is to increase efficiency, and without this, wage advances will offer no relief from the cost of living. Quite the contrary; increase in wages will add to the cost of living.

Men must produce more and this holds true from the president of the company to the janitor. When the boat gets into the rapids one cannot safely regulate his turn at the oars by the watch. We are in some very rough water and the only way to come safely through is to do our utmost at the oars until we are in quiet water.

Industrial programs, wage increases, shop committees, union agreements in themselves will not produce as much as one pair of suspenders or grow as much as one potato. Just common hard work, indeed, in these uncommon times, just uncommonly hard work will produce.

The history of 1920, in large measure, is in the hands of the workers. With reasonably conscientious effort on the part of those who produce, the new year should prove the greatest in the history of the construction industry in the United States.

PAINTING STRUCTURAL STEEL.

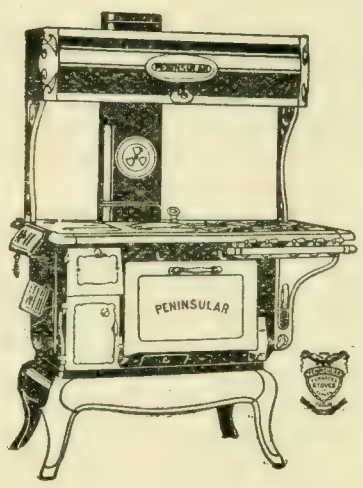
Red lead is a favorite paint for this purpose. Red lead is usually made from litharge and if it contains an excess of this substance and is mixed with oil, it soon becomes stiff and hard to work. Manufacturers now make red lead that is over 98 per cent. pure, thus insuring it against this fault. Red lead may be obtained in paste form similar to white lead and thinned for use by adding linseed oil. Dry pigment may also be obtained and mixed with oil by the user. In the latter case from 25 to 30 pounds of red lead are mixed with one gallon of oil.

Other paints which give good satisfaction are made of graphite and linseed oil. Lampblack is often mixed with graphite paints with good results. Asphaltum is also used as a varnish for structural steel.

An important requirement for a good job is that the steel must be perfectly clean. It is even more important for steel to be clean to receive paint than it is for wood. The pores of wood afford some mechanical bond for paint, but with steel the only bond is that of adhesion. All rust spots should be entirely removed with scrapers and wire brushes, using a hammer and cold chisel for cutting out rust pockets.

Two coats of paint are commonly used, but three are better. In two-coat work it is advisable to go over the edges and the rivets with a striping coat before the second coat is applied, as these points are likely to hold only a very thin film from the first coat. Allow at least a week between coats. All contact points should be thickly painted. On important work the first coat is usually applied at the mill. In such cases it will be necessary to inspect the material carefully for places where the paint has been damaged by rough handling.

The importance of covering every portion of structural steel can not be too strongly emphasized. Under many conditions steel is more perishable than wood and carelessness in painting may be responsible for serious depreciation that may result in the failure of structural members. Shapes that are difficult to paint are avoided by conservative designers. This is an important reason for the growing disfavor for beam box girders—made of two I-beams with top and bottom plates—it is impossible to properly coat the inside of such a shape. —*National Builder.*



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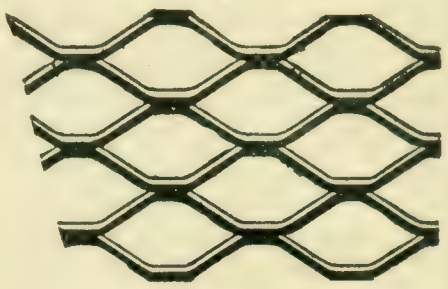
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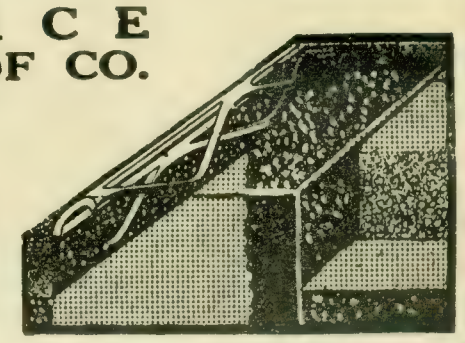
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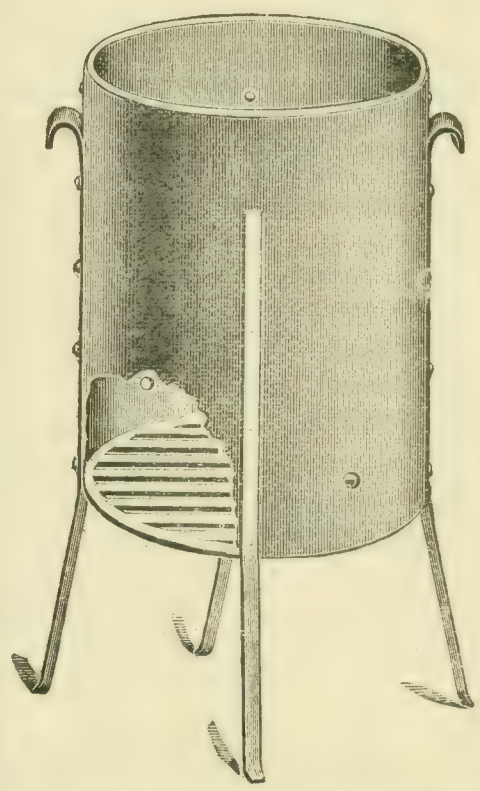
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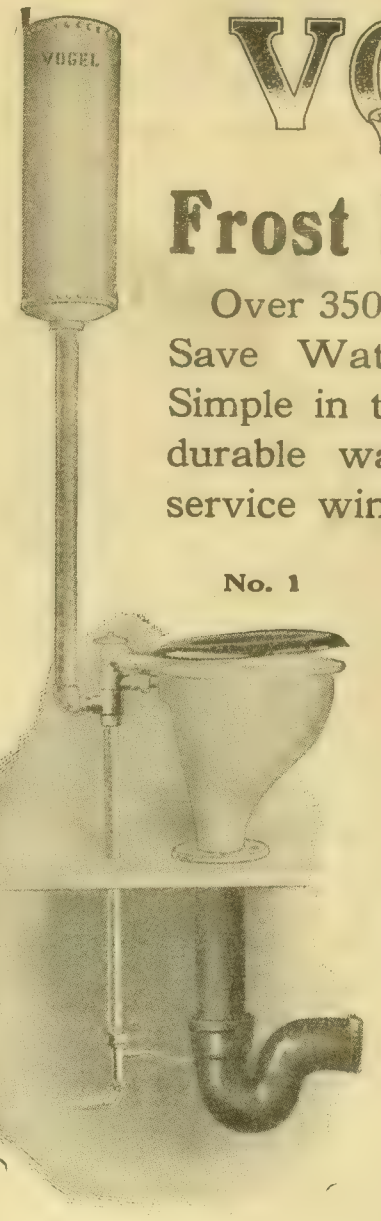
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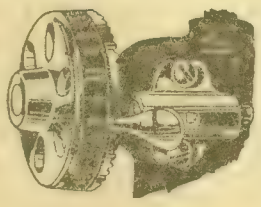
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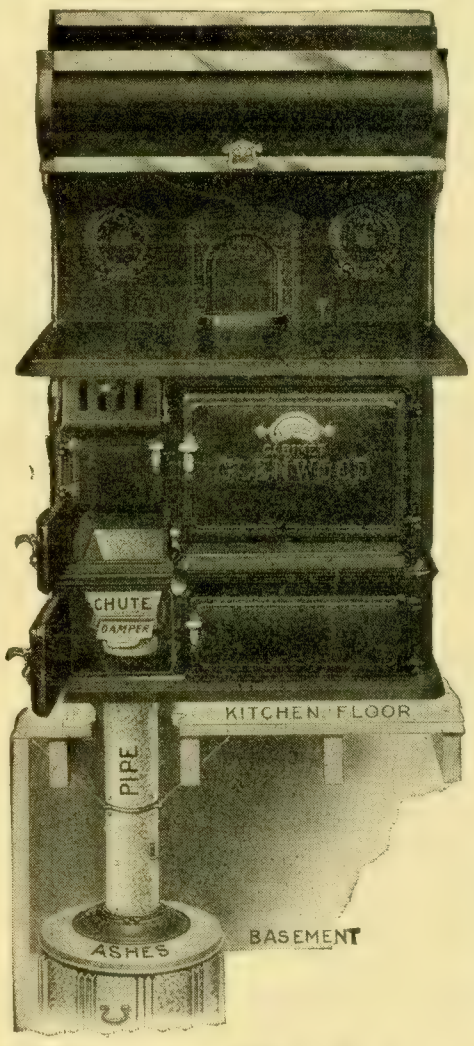
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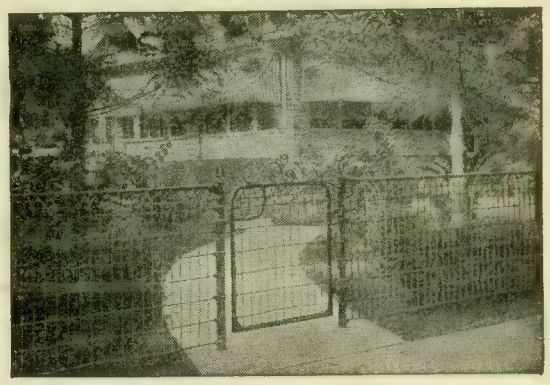


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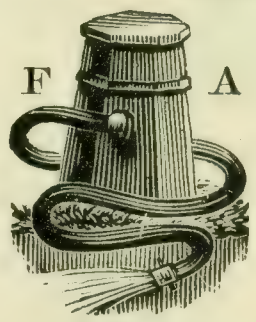
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STATEMENT

RESOURCES

Loans and Investments	$19,947,335.03
Due from Banks	2,473,798.51
Exchanges for the Clearing House	958,504.80
Customers' Liabilities on Account of "Acceptances" Executed by this Bank	263,056.28
Cash and Reserve	2,020,197.83
	$25,662,892.45

LIABILITIES

Capital		$500,000.00
Surplus and Net Profits	$685,605.54	
Unearned Discount	111,140.11	796,745.75
Amount Reserved for Taxes Accrued		46,280.39
Amount Reserved for Interest Accrued		3,329.20
Circulation		460,097.50
Acceptances Executed for Customers		263,056.28
Bills Payable with Federal Reserve Bank Secured by U. S. Liberty Bonds and Certificates of Indebtedness	$4,990,000	
Bills Payable with Federal Reserve Bank	1,130,000	6,120,000.00
War Loan Deposit	438,000	
Deposits	$17,035,383.33	17,473,383.33
		$25,662,892.45

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Franklin National Bank
Chestnut Street West of Broad
Philadelphia, December 31, 1919

RESOURCES

Loans and Discounts	$56,278,396.94
Liability under Letters of Credit and Acceptances	489,179.55
Interest earned Uncollectd	154,977.63
Due from Banks	15,894,380.38
Cash and Reserve	6,660,005.02
Exchange for Clearing House	5,582,142.92
	$85,059,082.44

LIABILITIES

Capital	$1,000,000.00
Surplus	4,000,000.00
Undivided Profits	591,128.78
Reserve for Taxes	230,529.49
Discount and Interest Unearned	164,377.43
Letters of Credit and Acceptances	489,179.55
Bills Payable and Rediscounts at Federal Reserve Bank	12,493,200.00
Deposits	66,090,667.19
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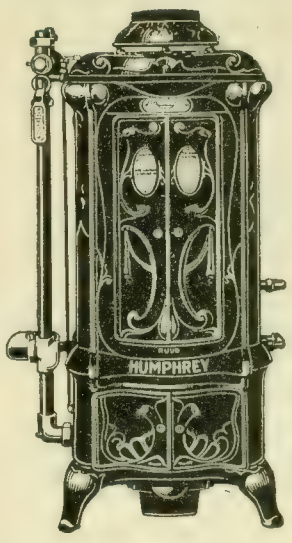
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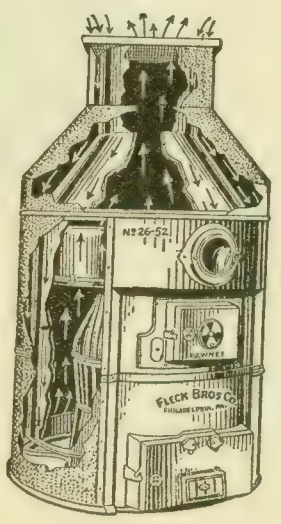
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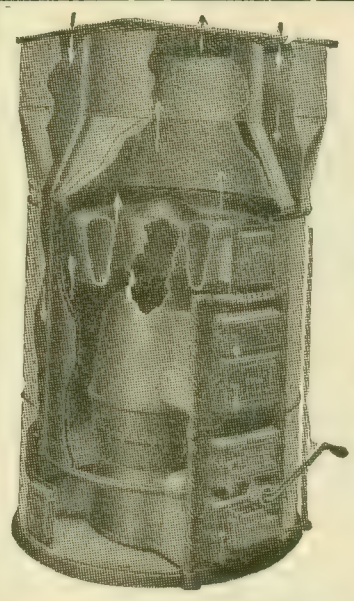
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 2

PHILADELPHIA
January 14, 1920

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

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As The Editor Sees It

THE year 1918 distinguished itself by outclassing all previous low records for construction work. In spite of the very discouraging report for that year, the termination of the war and the lifting of the ban on building filled everyone with such high hopes for 1919 that the sad record established by 1918 did not cast the gloom which it ordinarily would.

All was not smooth sailing, however, for 1919. Strikes retarded the building industry as well as many others indirectly affecting it, and during the months of April, May and June, the building trades led the list in the number of strikes, furnishing 200 out of a total of 974 of these activities. Labor was scarce and high, materials were scarce and high, and transportation was most uncertain. But 1919, in spite of these and other obstacles, fulfilled the prophecies made about it, and in Philadelphia broke all records.

A total expenditure of $65,088,750 was authorized by the Bureau of Building Inspection for the improvement of Philadelphia real estate last year.

This is more money that has ever been spent for that purpose in any previous twelve months in the history of the city.

This does not mean that more property was improved last year than in any similar period theretofore, for as a matter of fact, the number of operations falls considerably short of the number undertaken in several previous years, it simply means that it cost property owners considerably more per operation to make improvements, because of the tremendous advance in the cost of building materials, amounting in some cases to from 100 to 200 per cent.

Operations undertaken last year numbered 14,509, a little less than the average, although their cost amounts to more than four times as much as was invested in the improvement of real property in 1918, is nearly twice as much as was spent for the same purpose in 1917, and is more than one and one-half times as much as was spent for buildings in any previous year back to and including 1909.

The table of classification printed on another page of this issue shows that 5,291 houses were built last year, at a cost of $27,740,765, while less than 1,000 were built in 1918.

While this increase is encouraging, it is still far below the average, about 7,500 houses a year, built prior to the war, and the city is still about 30,000 houses short of the number necessary to supply the demand.

The following table shows the total for each year back to and including 1909:—

Year.	Options.	Estimated Cost.
1909	17,294	$42,881,370
1910	16,383	37,866,565
1911	16,215	40,030,985
1912	14,907	37,173,635
1913	14,813	38,763,850
1914	15,709	35,419,605
1915	17,712	39,444,125
1916	15,613	49,896,570
1917	8,977	34,016,480
1918	5,950	15,452,670
1919	14,509	65,088,750

The Forty-second Ward, with 2,326 operations to cost $9,604,205, leads the city in improvements, most of which were new dwellings. The Thirty-fourth comes next with 1,360 operations to cost $6,724,045, while the Fifth with 100 operations, one of them an office building, is third with a cost estimate of $5,626,520.

It is easy to see from these statistics that the building era is just begun. Prosperity looms large on the horizon and everyone must be ready to do his part in the great work of the present and future. Zoning, city planning, good roads, better schools, better living conditions are all subjects of vital import. From every side comes the forecast of big work and big improvements for 1920.

"San Francisco," says the *Architect and Engineer* of California, will lead all Pacific Coast cities in new building construction next year, according to advance figures gathered from state, county, and municipal channels, architects, construction engineers and others in touch with building operations. One hundred and fifty million dollars is a conservative estimate of the cost of new construction

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work in the Coast cities in 1920, with very near one-half this sum to be spent in San Francisco and the Bay region. A greater sum will be expended in 1920 for new school houses than for several years past, due to the steady increase in population and the almost complete cessation of this class of building operations in 1918-19 on account of the war. Among the California cities that have voted bond money for new school buildings and which money will become available next year, are the following:

San Francisco	$3,500,000
Oakland	4,750,000
Sacramento	3,000,000
Berkeley	1,250,000
Fresno	1,250,000
Cupertino School District	100,000

Other public work, exclusive of the twenty or more millions that will be spent for state and country highways, includes the Capitol Extension buildings in Sacramento, to cost $3,500,000, and the State building now under construction in the San Francisco Civic Center at an outlay of $1,250,000, together with various smaller projects, such as additions and betterments to state institutions, the work to be carried on by the State Department of Architecture at Sacramento, from funds appropriated by the last legislature.

There will be more office buildings erected in San Francisco in 1920 than for several years as a result of an urgent demand for modern offices in the business section. Similar reports come from all sections of the country.

But, warns the *American Contractor* our war experience has taught us a great deal about the High Cost of Doing Things in a Hurry. The old adage "Haste makes waste" has been demonstrated in a most spectacular way. Prevailing construction costs suggest the desirability of taking full advantage of those economies possible through foresight, preparation and planning. These latter are possible only where a given project is decided on and plenty of time is given the contractor to set his house in order.

Next year, it now appears, is to witness feverish activities in the construction industry. The major undertakings now are being formulated. The sooner they are carried to the degree of maturity justifying the letting of contracts, the better. If the contractors on these projects are to render maximum service at minimum cost, they must have time to plan and organize.

The highway program for next year calls for an unprecedented volume of construction work. Before work can begin finances must be arranged, construction organizations must be brought together or strengthened, new equipment must be installed and old equipment made serviceable, an adequate supply of materials must be found and transportation—one of the serious problems—must be arranged for.

None of these preliminaries can be arranged until the contractor knows he is to have the job. Builders—whether governments or private interests—will find in 1920, as never before, the early bird will get the worm; the project first in the field will have a decided advantage on materials, labor, and construction organization. Right now is the time to get underway for an early start. On such work as will admit of it, contracts should be awarded now. Not only will the early start permit more work to be done, but it will obtain for the builders, whether private investors or the general public through their taxes, the important economies possible only where the contractor has plenty of time to plan his work and organize his forces for maximum efficiency.

Builders and architects in Philadelphia are already awake to the opportunities open to them as well as the difficulties confronting them, and it is safe to predict that Philadelphia will make 1920 another, and still greater, record-breaking year.

* * *

THE IMPREGNABLE POSITION OF THE ARCHITECT

It has been said that the architect is trusted to a greater extent than he physician is trusted—because the former is trusted with the expendiure of large sums of money, yet his spending is seldom or never questioned by the client. The physician is trusted with one's life, it is true; but there is no record of how trustful their patients would be if it were (in this day and age!) a question of cash instead of life.

However this may be, the point is that architects enjoy the highest confidence of the public, when it concerns the decisions regulating expenditures or selection of materials or specialties that are to go into a structure. The architect's integrity is seldom or never a matter of debate. He is taken at his own valuation, as that of an absolutely disinterested party whenever the money part of a building is concerned. The only question that may ever have been raised against him was that in some of his designs he has aimed to create prestige and glory for himself rather than to produce a building best suited to the owner's needs.

* * *

But as to his say-so regarding just what was to go into the work, or the amounts to be spent, his word is taken to be final, and his approval is acquiesed in with little or no questioning as to his motives. He is not suspected of having ulterior or mercenary motives guiding him in selection or naming of certain materials or equipment.

This high standing, well earned by the architectural profession by its past acts and proved and tested by long years, is a precious asset that must not be lightly ignored. In anything that is done by the profession in the future to further adjust itself to world changes and conditions, its integrity as a just arbiter between interested parties, its honor built upon disregard for selfish profit from the operations which it supervises, must be maintained.

It is the bed-rock upon which the foundations of the whole architectural professional structure rests. No profession or business, no group of men, no organization, can desire a finer basis upon which to establish itself. And such a basis cannot be acquired overnight. Taints cannot be eradicated in one generation. Reputations for character such as are enjoyed by architects are the cumulative products of a succession of generations of honorable acts on the part of the architects hemselves.

* * *

All honor to those of the past who helped sustain this high integrity! The profession today, in the swirl of world changes, is beset on every side by temptations to do as others seem to be doing. Its traditional slowness, its traditional unwillingness to depart from custom, mayhap, is the reason for the profession's proceeding so cautiously along the road today, to find its way out under the new set of world conditions which it is facing.

The unique glory of the architect rests not alone in his practical work for humanity, the betterment of living conditions and surroundings, in the creation of objects of beauty which further lead to the higher inspiration of the rest of his fellow-men, and which leads, too, to an encouragement of men to continue their efforts toward higher things. The architect's glory is due in part to these things, but, after all, his highest honor is that which is awarded him universally—in America at least—of that of being an honest man, incorruptible.—*Building Review,* New Orleans.

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it To be out of sight in the commercial world is to be out of mind.

Advance Construction News

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Building (int. alts.), Broad and Columbia avenue, Philadelphia. Architect, Louis Levi, Real Estate Trust Building. Owner, Sun Life Insurance Co. of America, Baltimore, Md. Stone work, maple floors, steel work, mill work, plastering, hardware, painting, glazing, tile work, plumbing (heating and electric work reserved). Architect has received bids.

Apartment Hotel, Broad and Girard avenue, Philadelphia. Architects, Hewitt & Ash, 520 Walnut street, Philadelphia. Associate architect, Norman L. Hulme, 1524 Chestnut street, Philadelphia. Owner, Company, care of A. W. Pusey, Middletown Township, Pa. Brick, steel and terra cotta, side addition, 6 stories, 50x75 feet, and front add., 3 stories, 25x125 feet, flush bulks, stores on first floor front. Plans in progress. Details not decided.

Residences and Garages (14), Boulevard and "D" street, Philadelphia. Architect, Israel Demchick, 2420 South Third street, Philadelphia. Owner, John W. Shisler, 2514 South Broad street, Philadelphia. Brick, stone and stucco, 2½ stories, 60x16 feet, slate or asbestos and slag roof, hardwood, pine and cement floors, hot water heating, electric lighting, tile and marble work. Owner is ready for sub-bids.

Garage Building, West Philadelphia. Architects, Reinhold & Land, 1513 Walnut street, Philadelphia. Owner, name withheld. Brick, concrete and steel, 4 stories, 100x214 feet, slag roof, cement floors, steam heat, electric lighting, (2) electric elevators, rolled steel sash, hollow metal skylights. Architects taking bids due January 15th at noon. Standard Const. Co., 1713 Sansom street; M. H. McCloskey, Jr., 1620 Thompson street; Alex. Chambley, 2057 Summer street, and W. W. Anstine & Co., 1218 Filbert street, are figuring.

Club House (alts. and add.), 239 South Camac street, Philadelphia. Architect, David B. Bassett, 420 Perry Building, Philadelphia. Owner, Poor Richard Club, on premises. Brick, 1 story, 13x30 feet, slag roof, general interior alterations, electric lighting. Architect taking bids due January 19th at noon. Charles Gilpin, Harrison Building; Frank G. Stewart, 1619 Sansom street; F. L. Hoover & Son, 1023 Cherry street, and Lam Building Co., 1001 Wood street, are figuring.

Factory (add.), Sixth and Master streets, Philadelphia. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owners, Kraan Furniture Co., on premises. Brick or concrete, 3 stories, 31x75 feet, slag roof, concrete floors, roof ventilators, hollow metal sash, iron work, stone foundations (elevators, heating and electric lighting reserved). Architect taking bids due January 15th. Harry Brocklehurst, 512 West Norris street; Harry Gill, Jr., 2515 Germantown avenue, and E. C. Durell, 1613 North Twenty-fourth street, are figuring.

Store Building (alts. and add.), 713 Sansom street, Philadelphia. Architect, Griesler-Abramson Co., Lafayette Bldg., Philadelphia. Owners, Lashoff & Lieberman, care of architects. General alterations, steam heating, electric lighting, tile and marble work, composition floors, changing partitions, flush bulks. Architects will be ready for bids in a few days.

Store (alts.), Third and Market streets, Northwest Corner, Philadelphia. Architects, Greisler Abramson Co., Lafayette Building, Philadelphia. Owners, Post Cigar Co., on premises. Alterations to first floor, steam heating, electric lighting, tile floors, tile and marble work, flush bulks. Architects will be ready for bids in a week.

Community Garage, Sixth, North of Rockland street, Philadelphia. Architect, J. H. Hamilton, City Hall, Philadelphia (Room 736). Owner, O. F. Zurn Co., Broad and Lehigh avenue. Brick, 1 story, 8x16 feet compartments, slag roof, cement floors, stone foundations (heating, electric lighting and plumbing reserved). Owners taking bids. E. E. Hollenback, Inc., 1804 Brandywine street, and Charles Townsend, Rising Sun avenue; Wm. H. Ashton, Fifth and Fisher's Lane, are figuring.

Residence and Garage (7), Wharton street, East of Sixtieth street, $57,000. Architect, private plans. Owner, Abram Singer, 37 South Fifty-ninth street, Philadelphia. Brick, 3 stories, 16 feet 4 inches x58 feet, hot water heat, (6) 16x31 feet and 13x27 feet. Owner will build.

Residences and Garages (5), Sixtieth and Baltimore avenue, $33,000. Architect, private plans. Owner, Abram Singer, 37 South Fifty-ninth street, Philadelphia. Brick, 2 stories, 17x32 feet and 26x24½ feet, slag roof, hot water heat. Owner will build.

Building (alts.), 1248 North Broad street, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, George H. Haverford, Haverford, Pa. Brick and terra cotta, 3 stories, 25x39 feet, composition roof, cement and maple floors, metal lath, elevators, roof ventilators, waterproofing, stone foundations, electric lighting, rolled steel sash and skylights, rolling steel doors, iron work. Architects taking revised bids due January 18th. Frank G. Stewart, 1619 Sansom street, is figuring.

Residence, Southwest Corner Marlyn road and Malvern avenue. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John J. Marshall, 1115 Marlyn road, Philadelphia. Brick, stone and stucco, 2 stories, 16x45 feet, wing 11x20 feet, slate and slag roof, oak floors, cement work, garage in basement, electric lighting, hot water heating, tile and marble work. Plans in progress. Owner will be ready for sub-bids in one week.

Garage, Third and Cambridge streets, Philadelphia. Architects, Greisler & Abramson Co., Lafayette Building, Philadelphia. Owner, Harry Weinreich, care of architects. Brick and steel, 1 story, 55x198 feet, slag roof, cement floor, metal lath, stone foundations, vapor heating, electric lighting, rolled steel sash, rolling steel doors, iron work. Architects taking bids due January 23rd. H. E. Baton, 1713 Sansom street; William R. Dougherty, 1610 Sansom street; J. M. Yardley, 1716 Sansom street; Ketcham & McQuade, 1029 Brown street; E. E. Hollenback, Inc., 1804 Brandywine street, and J. Sims Wilson Co., 1125 Brown street, are figuring.

Schools (alts.), Third and Lombard streets and Seventh and Lehigh avenue, Haines and McCallum, and Howard and Cambria streets. Architect, private plans. Owner, Board of Education, Eighteenth above Chestnut street. Plumbing, electric work, cabinet work, new class room windows, general alterations, electric work. Owners taking bids due January 22nd at noon. E. C. Durell, 1613 North Twenty-fourth street, and Mitchell Bros., 2125 Race street, figuring on Third and Lombard streets, and Seventh and Lehigh avenue.

Store and Apartments (alts. and add.), 5211 Girard avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Jacob Zinkoff, on premises. Brick, 3 story add., 18x16 feet, slag roof, general alterations, hot water heating, electric lighting, flush bulks, hardwood and pine floors. Architect will be ready for bids in a few days.

Residence and Garage, Surrey and Lafayette roads, Melrose Park, Philadelphia. Architects, Greisler & Abramson Co., Lafayette Building, Philadelphia. Owner, Joseph Sionsky, 2223 North Twenty-third street, Philadelphia. Stone and stucco, 2½ stories, 44x39 feet, and 2 stories, 25x25 feet, slate roof, stone foundations. Architect taking sub-bids due January 15th. J. M. Yardley, 1716 Sansom street, figuring on masonry, etc. Sub-bids be taken on hardwood floors, hot water heating, electric lighting, tile and marble work.

Storage Shed, York road, North of Butler street, $3,500. Architect, private plans. Owners, Charles F. Felin & Co., on premises. Frame, 1 story, 20x176 feet. Owner will build.

Warehouse, 16 South Sixth street, Philadelphia, $8,500. Architect, private plans. Owner, Garrett Buchanan Co., 12 South Sixth street, Philadelphia. Brick, 5 stories, 21x173 feet. Owners will build.

Garage (add.), 710-12-14-16 South American street, $10,000. Architect, private plans. Owner, A. Spear, 715 South Third street, Philadelphia. Brick, 2 stories, 55x63 feet. Owner will build.

Garages (2), 2227-29 West Estaugh street, Philadelphia, $4,000. Architect, private plans. Owner, Thomas F. Armstrong, 2226 Tioga street, Philadelphia. Brick, 1 story, 26x18 feet, 18x49 feet. Owner will build.

Bulding (alts.), 4119 Market street, Philadelphia. Architect, Otto Miller, care of owner. Owner, Samuel Biron, 2617 Girard avenue, Philadelphia. Carpentry and steel work. Owner taking bid from E. E. Hollenback, Inc., 1804 Brandywine street.



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Office and (2) Apartments (alt. and add.), 2524 Girard avenue. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, G. Percy Fox, on premises. Brick, third story add., 16x40 feet, 1 story, garage add., 18x16 feet, slag roof, oak and cement floors, stone foundations, hot water heating, electric lighting, tile and marble work. Owner is ready for bids.

Dwelling, Verree road, East of Rising Sun avenue, $3,500. Architect, private plans. Owner, Charles Schoppe ,1101 Cottman street, Philadelphia. Frame, 2 stories, 27x42 feet, 1 story, 11½x11½ feet, steam heat. Owner will build.

Office Building (alts.), southwest corner of Third and Chestnut streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Hare & Chase, 309 Walnut street, Philadelphia. General alterations. Plans in progress. Too early for details.

Office Building, Philadelphia. Architects, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, Edward Grubb, 1914 Dauphin street, Philadelphia. Brick, 1 story, 17x 40 feet, slag roof, pine floors, hot water heating, electric lighting, stone foundations. Owners taking bids, due January 15th. Welch & Wheeler, 243 North Vodges street; McArdle & More, 1453 South Fifty-third street; Thos. Matthews, 2339 Hancock street, and William Bushnell, Tabor Road, Olney, Philadelphia, are figuring.

Residences (8), Sixty-sixth avenue, east of Broad street, $120,000. Architect, private plans. Owner, Frank D. Williams, 3819 Pulaski avenue, Philadelphia. Brick, 3 stories, 20½x40½ feet, and 1 story, 13x8½ feet, slag and slate roof, hot water heating, electric lighting, oak floors. Owner will build.

Hospital (alts.), Frankford, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Frankford Hospital, Frankford, Philadelphia. Carpentry, millwork, plastering, painting (alterations to second floor). Architects taking bids, due as soon as possible. H. E. Baton, 1713 Sansom street; Wm. R. Dougherty, 1610 Sansom street, and J. Sims Wilson Co., 1125 Brown street, are figuring.

Store (alts. and add.), 1235 Market street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner's name withheld. New store front, interior alterations. Architect taking bids. Basch & Co., 1426 South Front street; Frank Rieder & Son, 343 North Fourth street, and Jacob Gorchov, 4116 Girard avenue, Philadelphia, are figuring.

Building (alts. and add.), Chestnut street, near Thirty-fourth street. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Universal Motor Agency, 3438 Ludlow street, Philadelphia. Stone, brick and steel, general alterations and additions. Plans in progress. Will be ready for bids in three weeks.

Store Building, 2943-45 Kensington avenue, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, M. Robinson, on premises. General alterations. Plans will be ready for bids in a few days.

Contracts Awarded

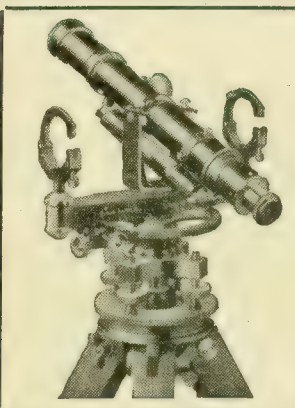
Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office, South side Lewis street, East of Tacony street, $18,000. Architect, private plans. Owner, the John Illingsworth Steel Co., Tacony and Lewis streets. Brick and concrete, 2 stories, 37x35 feet. Contract awarded to George Tomlinson & Son, 1200 East Washington Lane.

Store Building (alts.), 1010 Cherry street, Philadelphia, $2,000. Architects ,Day & Zimmerman, 611 Chestnut street, Philadelphia. Owner, Rumsey Electric Co., 1231 Arch street, Philadelphia. General alterations. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

Tank Supports, Southwest Corner Eleventh and Washington avenue, $5,000. Architect, private plans. Owner, John Wyeth & Bro., 1118 Washington avenue, Philadelphia. Supports for 15,000-gallon tank .Contract awarded to Albert Zellfelder, 151 South Broad street.

Building (alts.), 41 North Tenth street, Philadelphia, $1,800. Architect, private plans.



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Owner, Concord Textile Co., on premises. General alterations Contract awarded to A. W. Shirreff, 427 Walnut street, Philadelphia.

Residence, Northeast Corner Forty-ninth and Chestnut streets, Philadelphia. Architect, Paul A. Monaghan, Bailey Building, Philadelphia. Owner, Faculty of West Philadelphia High School, West Philadelphia. Stone, 3 stories, 124x45 feet, slag roof, composition and maple floors, stone foundations, steam heating, electric lighting, tile work. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Store (alts.), 903-05 Filbert street, Philadelphia, $2,600. Architect, private plans. Owner, B. F. Neal, on premises. Alterations, new store front, carpentry, mill work, painting and glazing. Contract awarded to E. C. Durell, 1613 North Twenty-fourth street, Philadelphia.

Storage Building (add.), 227 South Fifth street, Philadelphia, $7,000. Architect, private plans. Owner, John Murphy Co., on premises. Brick, second story add., 19½x64 feet, slag roof. Contract awarded to C. H. Keefer & Son, 1321 Rodman street.

Stable (alts.), 330-334 North American street, Philadelphia, $5,000. Architect, private plans. Owner, Sternfeld-Weil Co., 347 North Third street, Philadelphia. Alterations to warehouse. Contract awarded to Conneen Const. Co., 10 South Eighteenth street, Philadelphia.

Garage, 224 West Walnut lane, Germantown, Philadelphia, $5,000. Architect, Edwin G. Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Mrs. John F. Keator, on premises. Hollow tile and stucco. 1 story, 20x23 feet, 9½x4½ feet, stone foundations, slate roof, cement floors, hot water heat, electric light. Contract awarded to Leonard H. Davis, Ambler, Pa.

Store Building (alts. and add.), 139-143 North Seventh street, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, J. D. Johnson & Co., on premises. Brick and steel, 2 stories, 25x40 feet, slag roof, composition floors, metal lath, stone foundations, tile and marble work, fire doors, metal ceilings, iron work (heating and lighting reserved). Contract awarded to Sutton & Stephenson, 1317 Washington avenue.

Laundry (add.), 5415 Ella street, Philadelphia, $5,200. Architect, private plans. Owner, C. W. Jennings, 5411 North Water street, Philadelphia. Brick, 1 story, 30x50 feet, 15x40 feet. Contract awarded to W. L. Bushnell 2146 East Norris street.

Administration Building, Hunting Park avenue and P. R. R., $180,000. Architect, private plans. Owner, Link Belt Co., Hunting Park avenue and P. R. R. Brick and terra cotta, 3 stories, 160x56 feet, stone foundations, slag roof, cement and composition floors, tile and marble work, metal lath, rolled steel sash, kalamein doors, dampproofing, iron work (heating and electric work reserved). Contract awarded to William Steele & Sons Co., Sixteenth and Arch streets.

Greenhouse, Milnor street, North of Fitler street, $7,000. Architect, private plans. Owner, Mrs. C. H. Howell, on premises. Concrete or brick, 1 story, 12x22½ feet and 25x50½ feet. Contract awarded to Lord & Burnham Co., Irvington, N. Y.

Store Building (alts. and add.), 4521 Frankford avenue, $4,550. Architect, private plans. Owner, T. Aersnick, 4663 Frankford avenue, Philadelphia. General alterations. Contract awarded to Shestack Const. Co., 205 Parkway Building.

Y. W. C. A. (alts. and add.), Eighteenth and Arch streets, Philadelphia. Architect, C. A. Ziegler, 1218 Chestnut street, Philadelphia. Owners, Y. W. C. A., Eighteenth and Arch

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Building (alts.), Belgrade and Schiller streets, $8,000. Architect, private plans. Owner, C. F. Simmons Sons, Belgrade and Tioga streets. General fire repairs. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Residence, 2830 North Twenty-second street, Philadelphia, $2,600. Architect, private plans. Owner, Charles Palladino, 2134 Toronto street, Philadelphia. Brick, 2 stories, 18x28 feet, 12x10 feet, hot water heating. Contract awarded to Tony Stetano, 2822 Van Pelt street.

Bank (add.), Third and Arch streets, Philadelphia. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, Union National Bank, Third and Arch streets, Philadelphia. Brick, cut stone and steel, 3 stories, 30x40 feet, addition to present add., same specification. Plans in progress. Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

Garage, 4823 Brown street, Philadelphia, $6,100. Architect, private plans. Owner, Fred Kissling, 4821 Brown street, Philadelphia. Brick, 1 story, 40x80 feet, slag roof, cement floors, electric lighting, steam heating. Contract awarded to Warren E. Biscoe, 3954 Ludlow street.

Store, southwest corner of Lancaster avenue and Brown street, $26,000. Architect, private plans. Owner, Wm. Madway, 4221 Lancaster avenue, Philadelphia. Brick, 2 stories, 75x28 feet and 89½x12 feet, slag roof. Contract awarded to Warren E. Biscoe, 3954 Ludlow street, Philadelphia.

PENNSYLVANIA Construction News

Residence and Garage, Tyrone, Blair County, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Richard Beaston, Tyrone, Pa. Stone and half timber, 2½ stories, 60x60 feet, and 2 stories, 30x40 feet, green stone slate roof, oak floors, stone foundations, hot water heating, electric lighting, tile and marble work, slate terraces, landscape work. Architect ready for general bids from contractors who would be interested in work in Tyrone. (Several other large residences in Tyrone.) (Plans in progress. Will be out for bids shortly.)

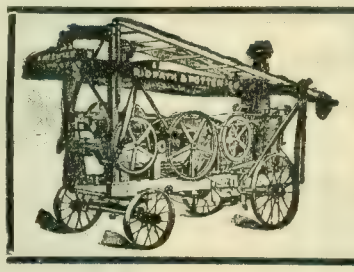
Dairy Building, Coatesville, Pa. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owner, Breuninger Bros., Coatesville, Pa. Brick and concrete, 2 stories, 80x127 feet, slag roof, cement floors, metal lath, stone foundations, rolled steel sash, rolling steel doors, iron work (electric work and heating reserved). Architect taking bids due January 16th. H. E. Baton, 1713 Sansom street;



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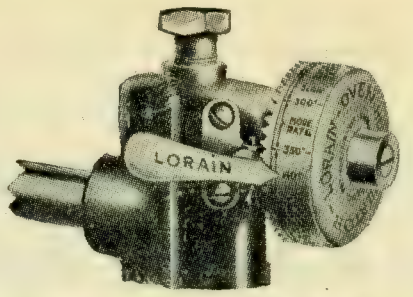
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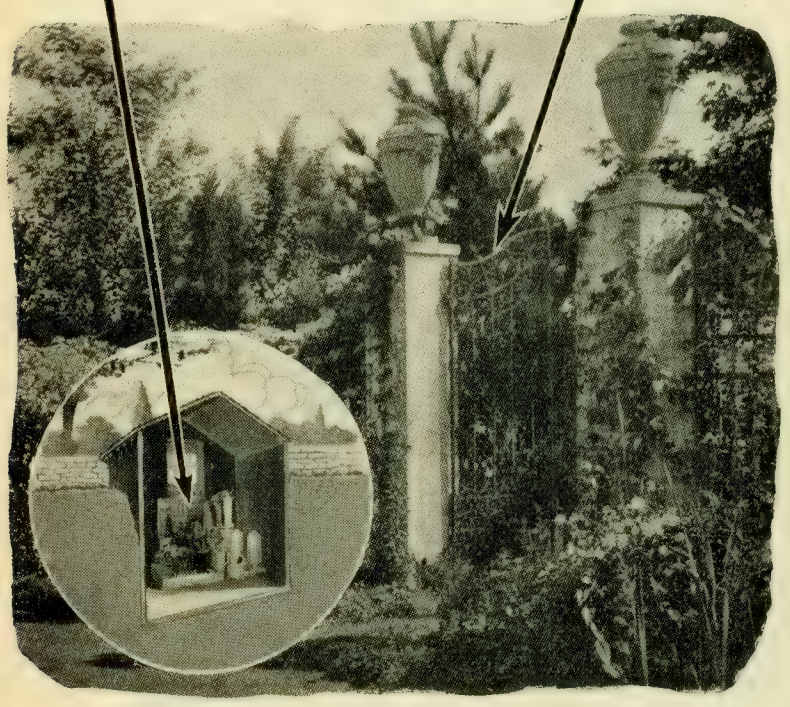
Walnut 3275 Race 1493

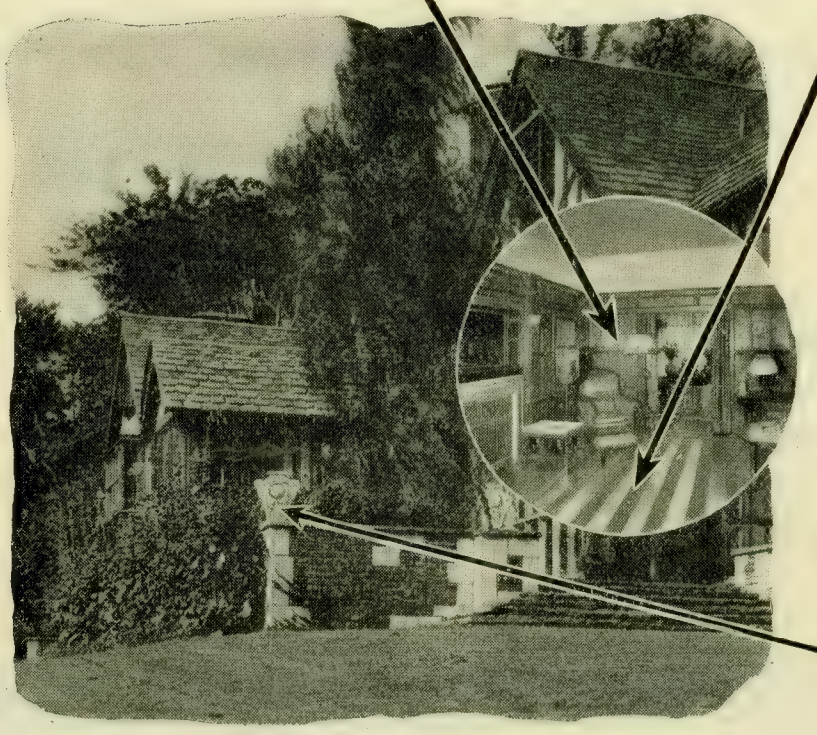
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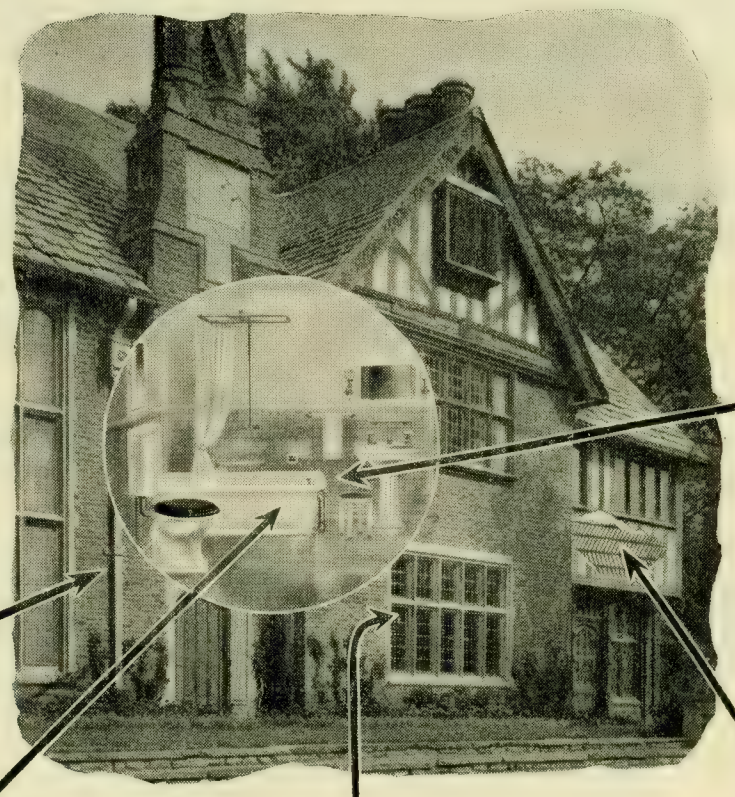
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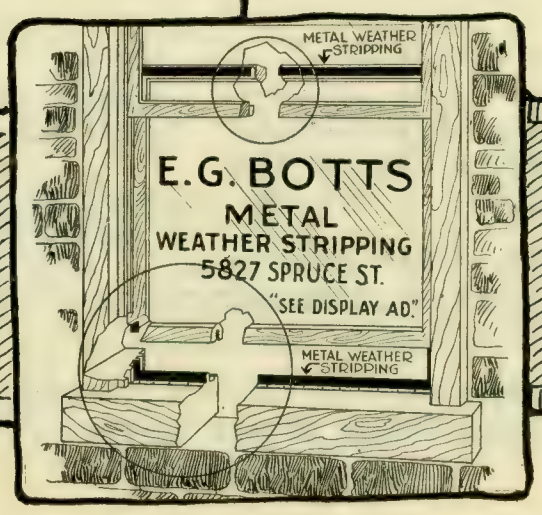
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Wark & Co., 1737 Filbert street; Frank G. Stewart, 1619 Sansom street, Philadelphia; Dunleavy Brothers, W. K. Thorn, William Elliott, Wesley Beard & Son and Horace Entrekin, all of Coatesville, Pa., are figuring.

Theatre, Windbur, Pa. (Somerset County). Architects, Henry L. Reinhold, Jr., and Ralph A. Land, 1513 Walnut street. Owner, Windbur Corporation, Windbur, Pa. (Somerset County). Brick, 2 stories, 500x200 feet, slag roof, composition floors, stone foundations, steam heating, electric lighting, tile, marble and terrazzo work, ventilating system. Architects ready for bids from general contractors for all work and material except foundation walls. Plans may be secured at the office of architects.

Residence, Merion, Pa. Architect, John Russell Pope, 527 Fifth avenue, New York City. Owner, J. H. Carstairs, Bellevue Court Building, Philadelphia. Stone. Architect selected. Plans in progress. Too early for details. Architect will take bids about May 1st.

East Side Hotel (alts.), Fourth and Hinkson streets, Chester, Pa. Architect, private plans. Owner, John McClure, Chester, Pa. Brick work, iron work, mill work, pine floors, terrazzo and tile work, plumbing, heating repairs, electric work, plastering, painting and glazing. Owner taking bids due as soon as possible. John R. Wiggins & Co., Otis Building, Philadelphia, is figuring.

Store Building (alts. and add.), Market and George streets, York, Pa. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, United States Woolen Mills Co., York, Pa. General remodeling of building, electric lighting, tile and marble work, pine floors, plate glass, bulk windows. Plans in progress. Will be ready for bids in a few days.

Academy Building (int. alt. and add.), Villa Nova, Pa. Architect, John J. Kennedy, Ford Building, Wilmington, Del. Owner, Rev. James J. Dean, O. S. A., Villa Nova College, on premises. Brick and steel, 3 stories, roof repairs, maple floors, electric light, tile and marble work, fire escapes, metal lath, terra cotta, plastering (plumbing and heating reserved). Architect taking bids due January 17th. Jacob Myers & Sons Co., Witherspoon Building; William R. Dougherty, 1610 Sansom street; John McShain, 1610 North street, Philadelphia, and H. P. Friend, Norristown, Pa., are figuring.

Residence, Penfield, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Mrs. Gertrum Leedom, Mano, Pa. Architect taking bids for completion of contract.

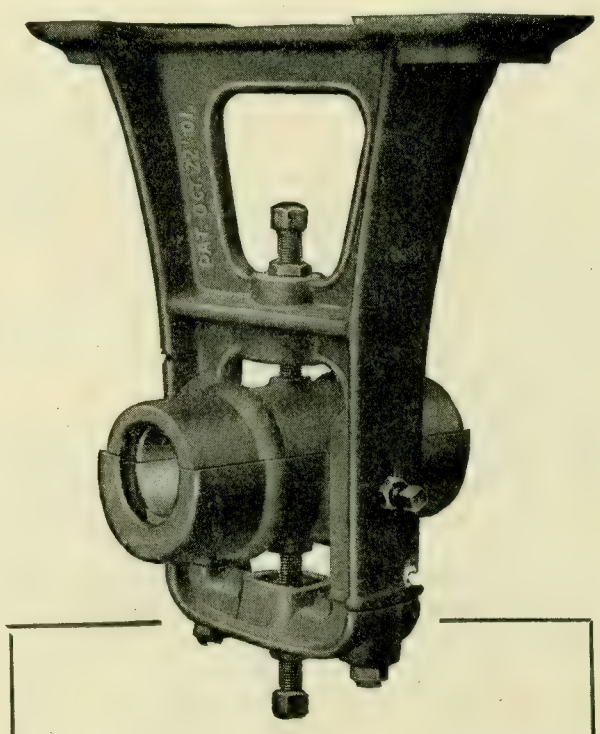
Residences (7), Jenkintown, Pa. Architect, Andrew J. Borzner, 717 Walnut street, Philadelphia. Agent, Theo. M. Delaney, Jenkintown, Pa. Hollow tile and stucco, 3 stories, shingle roof, oak floors, cement work, stone foundations, hot water heat, electric light, tile work. Architect taking revised bids due as soon as possible from E. Allen Reeves, Abington, Pa., and Delaware County Const. Co., Clifton Heights, Pa.

Residence and Garage, Glenside, Pa. Architects, Reinhold & Land, 1513 Walnut street, Philadelphia. Owner, William A. Wittmaier, Glenside, Pa. Frame, 2½ stories, 26x34 feet, and 1 story, 12x18 feet, asbestos shingle roof, hot air heating, stone foundations, cement floor, mill work. Plans in progress. Architects will be ready for bids in a week.

Bungalow, West Chester Turnpike, Delaware County, Pa. Architects, Hewitt & Ash, 520 Walnut street, Philadelphia. Owner,

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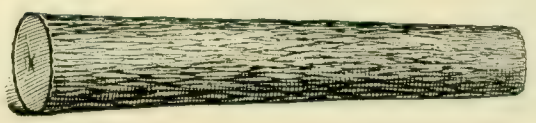
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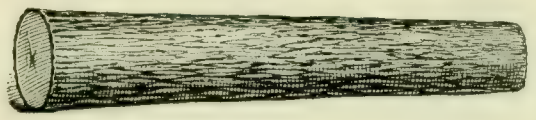
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Mrs. Irene D. Cunningham, care of architects. Stone, 1½ stories, 36x72 feet, wing 13x22 feet, tile roof, oak floors, hot water heating, electric lighting, tile work. Plans in progress.

Residences (2) and Garage, Wynnefield, Pa. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, name withheld. Metal lath and plaster, 2½ stories, 49x53 feet, garage, 22x22 feet, slate roof, cement and oak floors, vapor vacuum heating, electric light, tile and marble work, stone foundations, dampproofing, iron work. Architect taking bids due January 16th. Milton W. Young, Overbrook, Pa.; William R. Dougherty, 1610 Sansom street; Delaware County Const. Co., Clifton Heights, Pa.; J. Sims Wilson Co., 1125 Brown street, and A. L. Fretz & Son, Heed Building, are figuring.

Road Work, various locations, Pennsylvania. Owner, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, Capitol Building, Harrisburg, Pa. Bids will be opened 10 A. M., January 27th, 1920, for the construction of the following roads:

Armstrong County, Route 188, Kiskiminetas Township, length 10,610 feet. One course reinforced concrete. Certified check, $2,000.

Beaver County, Appli. 254, Center Township, length 3,055 feet. Vitrified brick. Certified check, $1,500.

Butler County, Route 309, Forward and Adams Townships and Callery Borough, length 28,188 feet. One course reinforced concrete. Certified check, $4,000.

Butler County, Route 251, Fairview Township, Petrolia and Karns City Boroughs, length 18,778 feet. One course reinforced concrete. Certified check, $3,000.

Cambria County, Route 222, Richland and Stony Creek Townships, length 24,207 feet. One course reinforced concrete. Certified check, $4,000.

Carbon County, Appli. 1012, Lehigh Township, length 23,420 feet. One course reinforced concrete. Certified check, $3,500.

Clearfield County, Route 60, Sandy Township, length 13,027 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $2,000.

Clearfield County, Route 59, Brandy Township, length 7,291 feet. One course reinforced concrete. Certified check, $1,500.

Crawford County, Route 82, Vernon Township, length 18,619 feet. Either 1 course reinforced concrete and Hillside vitrified brick or 2 course reinforced concrete and Hillside vitrified brick. Certified check, $3,000.

Crawford County, Route 89, East Mead Township, length 18.514 feet. One course reinforced concrete. Certified check, $3,000.

Dauphin County, Route 195, Reed and Watts Townships and New Buffalo Borough, length 41,753 feet. Either bituminous surface course on concrete foundation or 1 course reinforced concrete. Certified check, $4.000.

Fayette County, Route 363, Henry Clay Township, length 5,467 feet. One course reinforced concrete. Certified check, $1,000.

Fayette County, Route 247, Perry and Jefferson Townships, length 14,496 feet. One course reinforced concrete and Hillside vitrified brick. Check, $2,000.

Greene County, Route 111, Center Township, length 10,620 feet. One course reinforced concrete. Certified check, $2,000.

Greene County, Route 256, Center Township, length 12,581 feet. One course reinforced concrete. Certified check, $2,000.

McKean County, Route 210, Eldred Township, length 14,800 feet. One course reinforced concrete. Certified check, $3,000.

Northampton County, Route 165, Plainfield and Washington Townships, and Pen Argyl Borough, length 20,164 feet. One course reinforced concrete. Certified check, $4,000.

Potter County, Route 101, Roulette Township, length 5,033 feet. Either bituminous surface course on concrete foundation or 1 course reinforced concrete. Certified check, $1,200.

oPtter County, Route 101, Roulette Township, length 7,892 feet. Either bituminous surface course in concrete foundatiin or 1 course reinforced concrete. Certified check, $1,500.

Schuylkill County, Route 290, Rush and Ryon Townships, length 39,500 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $4,000.

Venango County, Route 89, Plum Township, length 3,419 feet. One course reinforced concrete. Certified check, $1,000.

Warren County, Route 68, Warren Borough, length 2,080 feet. One course reinforced concrete. Certified check, $800.

Warren County, Route 93, Appli. 973-4, Tidioute Borough, length 12,012 feet. One course reinforced concrete. Certified check, $2,500.

Warren County, Route 279, Farmington and Sugar Grove Townships, length 40,485 feet. One course reinofrced concrete. Certified check, $4,000.

Warren County, Appli. 154, Farmington and Pine Grove Townships, length 22,287 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $4,000.

Westmoreland County, Route 68, Salem and Unity Townships, length 9,184 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $1,500.

Westmoreland County, Route 188, L. Burrell and Allegheny Townships, and Arnold Borough. One course reinforced concrete and Hillside vitrified brick. Certified check, $4,000.

Westmoreland County, Route 68, Derry Township, length 32,047 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $4,000.

Bidders may secure proposal forms and specifications free and plans upon payment of $2.50 per set on request to the State Highway Department, Harrisburg, Pa.

Manufacturing Building and Office, Holmesburg Junction, Pa. Architect, Leroy K. Rothschild, 1225 Sansom street, Philadelphia. Owner, Bessemer Truck Co., Holmesburg Junction, Pa. Brick and concrete, 1 and 2 stories, 100x80 feet, slag roof, maple and con-

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crete floors, stone foundations, steam heating, electric lighting, rolled steel sash, fire doors. Architects taking bids due January 15th. E. E. Hollenback, Inc., 1804 Brandywine street; John N. Gill & Co., Otis Building; Hogg Const. Co., Denckla Building, and Wark & Co., 1737 Filbert street, are figuring.

Residence, Springfield, Pa. Architect, Clyde S. Adams, 1507 Arch street, Philadelphia. Owner, E. J. Kreitzburg, 1345 Arch street, Philadelphia. Stone and stucco, 33x29 feet, slate roof, oak floors. Owner is taking sub-bids.

Residence, Springfield, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Ernest Maisel, Springfield, Pa. Stone, 2 stories, 30x35 feet, slate roof, oak floors, stone foundations, hot water heat. Owner is taking bid from E. J. Kreitzburg, 1345 Arch street.

Bank Building, Main street, Myerstown, Pa. Architects, Ritcher Lee Co., 32 South Seventeenth street, Philadelphia. Owner, Myerstown National Bank, Myerstown, Pa. Brick and stone, 1 story. Preliminary sketches drawn.

Exchange (alts.) (Locust Exch.), Pittsburgh, Pa. Architect, private plans. Owners, Bell Telephone Co. of America, Seventeenth and Arch streets, Philadelphia. General alterations. Owners taking bids due January 16th at 10 A. M. at office of Chief Engineer.

Power House and Laundry, Blossburg, Pa. (Tioga County). Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Blossburg Hospital, Blossburg, Pa. **Brick,** stone, steel and concrete, 1 story. Plans in progress.

Pennsylvania Contracts Awarded

Residence, Jenkintown, Pa. Architects, Tilden & Register, Franklin Bank Building, Philadelphia. Owner, Laurence Butler, Jenkintown, Pa. Brick, stucco and steel, 2½ stories, 32x60 feet, shingle roof, oak and pine floors, metal lath, tile and marble work, stone foundations (heating and electric lighting reserved). Contract awarded to E. Allen Reeves, Abington, Pa.

Residence, Sewickley, Pa., $25,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, F. C. Ewert, Sewickley, Pa. Hollow tile and stucco, 2½ stories, 30x74 feet, tile roof, oak floors, pine floors, stone foundations, vapor heating, electric lighting, tile work. Contract awarded to C. L. Swearingen, Sewickley, Pa.

Bank Building (alts. and add.), Thirteenth and Market streets, Harrisburg, Pa. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, Allison-Hill Trust Co., Harrisburg, Pa. Marble and steel, 1 story, 40x100 feet, stone foundations, steam heating, electric lighting, marble and wood partitions, mosaic, oak and cork floors, bronze work, mill work. Contract awarded to E. N. Lebo, Harrisburg, Pa.

Proposals

Proposals for Construction and Alteration of Building, Picatinny Arsenal, Dover, N. J., January 12th, 1920. Sealed proposals will be received here until 1 P. M., January 27th, 1920, and then opened for constructing and finishing extension and alteration to Building 117. Further information upon application to Constructing Officer.

New Jersey Construction News

Store and Residence (alts. and add.), 2311 Pacific avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, L. Zubkov, on premises. New porch, general interior alterations, new store front. Architect taking bids due January 20th.

Residence (add.), 2703 Pacific avenue, Atlantic City, N. J. Architect, Mr. J. R. Ogden, 143 North Carolina avenue, Atlantic City, N. J. Owner, Louis Hickman, on premises. General alterations, new porch. Owner is taking bids.

Building, 31 North Carolina avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owners, Vollmer & McBrearty ,31 North Carolina avenue, Atlantic City, N. J. Reinforced concrete, 2 stories, 100x150 feet. Architect taking sub-bids.

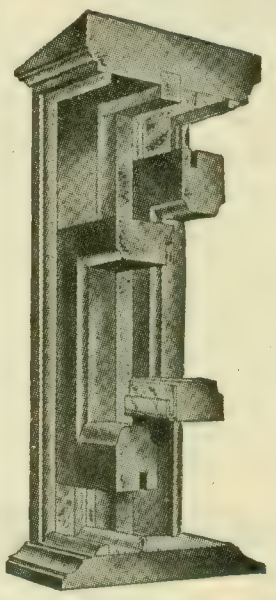
Arsenal Building, Dover, N. J. Architect, private plans. Owner, Picatinny Arsenal, care of Commanding Officer, Dover, N. J. Construction and completion of extension and alterations to Building No. 117. Owners taking bids due January 27th at 1 P. M.

High School (alts. and add.), Bridgeton, N. J., $175,000. Architect, not yet selected. Owners, School Board of Bridgeton, care of George W. McCowan, chairman, School Board, Pioneer Building, Bridgeton, N. J. Owners want competitive plans.

Residence and Garage, Fourth avenue, Haddon Heights, N. J. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owner, Warren Maenak, Haddon Heights, N. J. Hollow tile and stucco, 3 stories, 43x63 feet, tile roof, oak floors, stone foundations, hot water heating, electric lighting. Owner is taking bids due as soon as possible. William Wrifford and Baldwin Const. Co., both of Camden, N. J.; A. S. Stackhouse, Medford, N. J.; Builder Detzsche, Collingswood, N. J.; Charles J. Reif, Collingswood, N. J.; Fred Lange, Audubon, N. J.; Builder Haney, Orston, N. J.; J. Strang, Audubon, N. J.; Joseph Strang, Haddon Heights, N. J.; W. Frank Reber, Haddon Heights, N. J., and H. W. Wilson, 207 South Broadway, Gloucester, N. J., are figuring.

Bungalow, Marian avenue, Atlantic City, N. J. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City, N. J. Owner, Mr. McCurdy, 15 Marian avenue, Atlantic City. Brick and frame, 1 story and basement, 29x45 feet, concrete foundations, hardwood floors, pipeless heater, electric light, tile work. Sketches in progress.

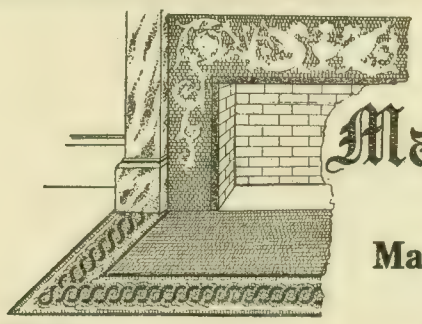
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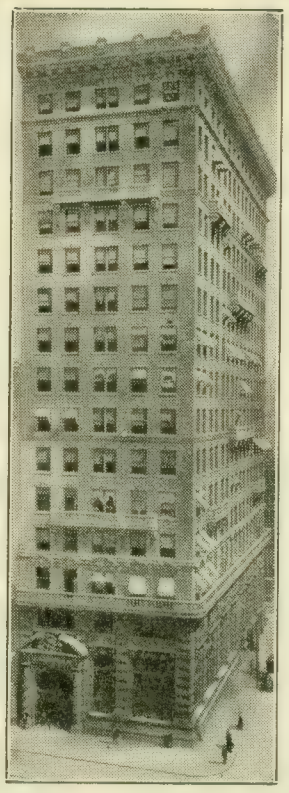
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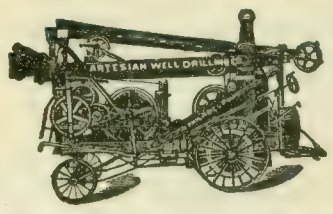
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Store Building (alts.), Indiana and Atlantic avenues, Atlantic City, N. J. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City. Owner, Halpen Bros., on premises. Brick and steel work, concrete foundations, pine floors, electric light, tile work, hollow metal skylights. Plans in progress.

Commercial Building and Apartment, Ventnor, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, name withheld. Hollow tile and brick, 2 stories, 40x96 feet, concrete foundations, slag roof, pine floors, hot water heat, electric light, tile and marble work. Architect taking sub-bids.

Apartment (alt. and add.), 109 Atlantic avenue, Atlantic City, N. J. Architect, H. A. Stout, Guardian Trust Building, Atlantic City, N. J. Owner, Mrs. Athalia Klose, on premises. Brick, 4 stories and basement, 30x20 feet, concrete foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Cottage, Ventnor, N. J. Architect, private plans. Owner, name withheld. Hollow tile, plaster, 2½ stories, 33x48 feet, 23x23 feet, concrete foundations, slag roof, hardwood floors, hot air heat, electric light, tile and marble work, stone work. J. V. Mathis & Son, Atlantic City, N. J., are figuring.

Hotel (alt. and add.), South Ocean avenue, Atlantic City, N. J. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City. Owner, T. H. Silverman, on premises. Brick, frame, slate and slag roof, pine floors, hot water heat, electric light. Architect has received bids.

Dirigible Hangar (alts. and add.), Spec. 4080, Cape May, N. J. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Navy Yard, Washington, D. C. Asbestos corrugated siding steel, 708x155 feet, asphalt-asbestos felt roof, composition floors, hollow tile, metal lath, waterproofing, concrete and wood pile, electric lighting, rolled steel sash and skylights, rolling steel doors, iron work. Lowest bidders: Associated Contractors, Inc., New York City, $772,930, 270 days; Stang & Mitchell, Real Estate Trust Building, Philadelphia, $787,000, 270 days.

Hotel (alts.), Mt. Holly, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, name withheld. General interior work. Architects taking bids E. W. Eshman and Fred Lippincott, Mount Holly, N. J., are figuring.

Casino, Dock. Swimming Pool and Dance Hall, Seaside Park, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Engineers, Remington & Vosbury, Camden, N. J. Frame, 2 stories, cement work, electric lighting. All bids rejected.

New Jersey Contracts Awarded

Stores (alt.), Maryland and Atlantic avenues, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Wagenheim & Helleman, on premises. General interior alterations, plate glass, hot water heat, electric light. Contract awarded to C. E. Schappell, Atlantic City, N. J.

Show Room and Apartment (alt.), 410 Market street, Camden, N. J. Architect, private plans. Owner, White Motor Truck Co., on premises. Alterations to front and remodeling interior. Contract awarded to Mockett Const. Co., Camden, N. J.

Residence and Garage, Rhode Island avenue, near Pitney avenue, Atlantic City, N. J. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owner, E. C. Schmidheiser, care of architect. Hollow tile and brick, 2 stories, 25x75 feet, asbestos tile roof, oak and cement floors, stone foundations, hot water heating, electric lighting, tile work. Contract awarded to Patrick O'Malley, 300 South Texas avenue, Atlantic City, N. J.

Church, National Park, N. J. Architects, Berry & Cumiskey, Real Estate Trust Building, Philadelphia. Owners, St. Matthew's Roman Catholic Church, care of Rev. Charles G. McCorristin. Brick, plaster and steel, 1 story, 49x82 feet, slate and shingle roof, maple floors, hollow tile, stone foundations, iron work (plumbing, heating and electric lighting reserved). Contract awarded to Melody & Son, 1322 Race street, Philadelphia.

Delaware Contracts Awarded

Residence (alt. and add.) and Garage, Eleventh and Broome streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, C. A. Patterson, 1007 Broome street, Wilmington, Del. Stone, irregular size, 2 stories, garage, 2 stories, 24x30 feet, shingle roof, pine and concrete floors, electric light, heating extension, interior and exterior alterations. Contract awarded to W. D. Haddock & Co., Wilmington, Del.

Store (alt. and add.), 511 Market street, Wilmington, Del., $31,150. Architect, John Canning, Jr., Lodge Building, Wilmington, Del. Owner, D. S. Lamb, 119 West Twenty-fourth street, Wilmington, Del. Brick, 4 stories, 107x12 feet, slag roof, maple floors, steam heat, electric light, marble work, rolled steel sash, elevators, roof ventilators. Contract awarded to Harry Levy, 424 Market street, Wilmington, Del.

Garage, Nineteenth and Race streets, Wilmington, Del. Architect, private plans. Owner, Sayer Bros., Eighteenth and Market streets, Wilmington, Del. Brick, 1 story, 26x42 feet, slag roof, concrete floors, electric light. Contract awarded to J. F. Owens, 2503 Market street, Wilmington, Del.

Dye House (alt.), Wilmington, Del., $6,500. Architect, private plans. Owner, Sayer Bros., Eighteenth and Market streets, Wilmington, Del. Brick, 2 stories, 25x90 feet, concrete foundations, slag roof, electric light. Contract awarded to J. F. Owens, 2503 Market street, Wilmington.

Boiler House (add.), South Fourth street, Wilmington, Del., $2,500. Architect, private plans. Owner, Delmarvia Leather Co., 208 West Fourth street, Wilmington. Brick and concrete, 1 story, 17x37 feet, stone foundations, slag roof, concrete floors, electric lighting. Contract awarded to G. S. Charles & Son, 701 Tatnall street, Wilmington, Del.

Miscellaneous Construction News

Pattern Shop, Spec. 4041, Navy Navy, Norfolk, Va. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Brick, steel

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DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

and hollow tile, 4 stories, 233x126 feet, asbestos built roof, pine and concrete floors, metal lath, elevators, safety treads, roof ventilators, stone foundations, steam heating, electric lighting, rolled steel sash, rolling steel doors, kalamein doors, iron stairs, iron work. Lowest bidders: Boyle-Robertson Co., Washington, D. C., Item No. 1, $409,981, 240 days; M. H. McCloskey, Jr., Inc., 1620 Thompson street, Philadelphia, $453,964, 240 days.

Residence, Middle Neck, Md., $45,000. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick, 1½ stories, 170x22 feet and 40x30 feet, slate roof, hardwood floors, stone foundations, steam heat, electric light, tile work. Revised plans in progress.

Cottage, Hernhard Bay, N. Y. Architects, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, Herbert W. Hess, care of architects. Frame, 2 stories, 25x30 feet, shingle roof, pine floors, stone foundations. Plans in progres.

GEORGE T. PEARSON

George T. Pearson, widely known in architectural circles, died last week at his home, 125 Westmoreland avenue, Germantown.

Mr. Pearson was born in Trenton, N. J., seventy-two years ago. He came to this city at the age of twenty-two and became an assistant to the city architect. In 1879 he opened offices of his own. Among the buildings which he helped to plan are the City Hall, the Ridgway Library, and the Philadelphia Cricket Club. He also furnished plans for many hotels and private residences.

In 1871 he married Miss Mary Pingree and established his home in Germantown, where he lived until the time of his death. He is urvived by a son, Roderick Pearson, an engineer.

HOW TO RETAIN THE BARK ON LOGS USED IN RUSTIC CONSTRUCTION.

For preventing the bark from flaking of logs used in rustic structures, the Forest Products Laboratory, Madison, Wis., recommends the following methods of seasoning and preparing the timbers as the most effectual:

1. Cut timbers late in summer and score on two sides; that is, cut off narrow strips of bark for the entire length. Pile in shade in open pile to allow thorough circulation of air. Allow timbers to season until following spring or summer before using.

2. Proceed as in (1), and in addition, coat ends, stripped portions, and knots with coal-tar creosote, using one coat a few days after timber is cut and another just before using the timbers.

3. Proceed as in (1), but do not score bark. When timbers are in place, tack bark on with large-headed nails, placing one to every square foot of surface. Paint heads of nails to resemble color of bark.

4. Tack or nail the bark on without particular attention to time of cutting or other treatment.

The nailing method has been used successfully by one western company which maintains numerous rustic hotels, and also on a large rustic building erected for exposition purposes.

THE INTERNATIONAL TRADE CONFERENCE

Its Work as Related to Construction

NOBLE FOSTER HOGGSON.

Although a number of definite steps of far-reaching importance were taken at the International Trade Conference, held at Atlantic City during the week of October 20th, perhaps the most important result of the conference, as a whole, was the conviction carried away by the delegates that in the conference hall had been born a movement of transcendant importance to the prosperity of the whole world and to the United States as an integral part of the world of commerce.

To the American delegates the most interesting question, naturally, was the possible effect of the conference upon American prosperity. They learned, those of them who had not realized it before, that the affairs of America have become so closely related to the affairs of Europe that co-operation within a nation is no longer sufficient for national prosperity. The commercial interdependence of Europe and America was well described by A. C. Bedford, acting chairman of the conference, when he said:

"The war has made us realize that it is not only necessary to sell to the nations of the world and buy from the nations of the world, but that we have a direct interest in actually promoting on its own account the prosperity of the world, not alone of that part of it comprised within our national boundary lines, but quite as much the prosperity of lands remote from our own."

One of the most vital subjects considered was that of credits, and it was brought out that unless Europe were helped to its feet America could not hope to prosper and flourish, that we must help France, Belgium and other nations with credits before we can expect them to trade with us on a healthy basis. Secretary of Commerce William C. Redfield expressed this idea when he said:

"I hope and believe that we shall open our doors much more widely than we now do to receiving goods from abroad, for we cannot sell if we do not buy. . . . We cannot sell unless we supply credit."

Dwight W. Morrow, of J. P. Morgan

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and Company, in an address on "The Problems of International Credits," which was very enthusiastically received by the delegates at the Thursday evening session, said that the credits extended to our former allies would be based, as credits always are, on character, and that the allies had thoroughly demonstrated their integrity and their responsibility during the trying days of the great war. He estimated that about $2,000,000,000 would have to be raised for this purpose, and pointed out that the money could be raised by saving. Mr. Morrow said:

"In this great enterprise of restoring Europe there is one indispensable man that you cannot get along without, and that is the plain, old-fashioned gentleman who produces more than he consumes and is willing to save the difference. . . . If the 100,000,000 people in the United States would save twenty cents a day on the average, that would amount to $6,000,000,000 saved in 300 days. A large portion of that amount would be needed for necessary capital expenditure at home, and the balance would be available for Europe. I do not think that there is any doubt that the amount of fresh capital can be produced that is needed by Europe in order to aid in this process of restoration."

Definite Results of Conference Were Twofold.

Among the chief specific results of the conference were: (1) Laying a foundation for the establishment of an international organization of business men in the nature of an international chamber of commerce. (2) Clarifying the problems of international credit and reaching the decision that neither the American government nor American banks can or should alone supply the necessary loans to Europe, but that individual investors should make loans through private corporations aided by the bands and encouraged by the government.

The finance committee, in its report to the conference, stated that the requirements of the European nations could be met and it recommended the formation of credit corporations under the terms of the Edge bill.

One of the most interesting addresses of the conference was that given on October 24th by Eugene Schneider, chairman of the French Mission and internationally known as head of the great Creusot works in France, which supplied "Seventy-fives" and other guns not only for the French army, but for America, Great Britain, and others of the allies. M. Schneider discussed in detail the present conditions of the mining and steel industries, the important textile industry, the chemical industry, agriculture, transportation and commerce. He said that France will soon take second place in the list of the world's steel countries, following immediately behind the United States, and that her engineering industry will follow the lead of her steel industry. An indication of what France is prepared to do in the way of encouraging industries that depend upon fuel for their prosperity is revealed by his statement that, because of the lack of coal and the need of a substitute fuel, the French government recently lowered the tariff on fuel oil from twenty-five dollars per ton to eighty cents.

Great Field for Construction in Colonies.

M. Schneider was highly optimistic as to the economic feature of the French colonies, as well as France, and of their capacity for development with the aid of American capital. He siad in part:

"The trade of northern Africa is increasing year by year. It amounts to more than $500,000,000. . . . Construction of new railroads will be of the greatest benefit to the development of our colonies. Algeria, one of the oldest, has more than 3,500 miles of highways and 2,000 miles of railroad, while Morocco has only 450 miles of narrow gauge railroad under the control of the military service. A new system of railroads, about 600 miles long, is under construction.

"Harbors must be developed on similar lines. For Algiers, a sum of $20,000,000 has been provided. The construction of the port of Casablanca, capable of handling 1,500,000 tons of shipping, is being rapidly pushed ahead. Other ports . . . have been improved.

"These few facts will enable you to understand the possibilities of our colonial territory, which includes, besides North African possessions, prosperous countries like West and Central Africa, Indo-China, Madagascar and the French islands of the Antilles and the Pacific. These colonies will send wheat, vegetables, oils, lumber. American co-operation in that line would probably give most excellent results."

Discussing conditions generally in Frasce, M. Schneider said:

"The reconstruction of our devastated regions is today in full swing. . . . At the time of the armistice we had 1,400 miles of railroads to rebuild and by September 1st of this year we had completed 1,250 of the total. We had 1,160 bridges, tunnels and viaducts of one sort and another to rebuild, and bp September 1st we had already completed 588. Of 670 miles of navigable waterways to be repaired we had already finished 450 miles at that same date. Out of 550,000 buildings destroyed or damaged by the war, we had repaired 60,000 by the beginning of last month, put up 16,000 huts and begun the construction of 60,000 new homes. We have cleaned up shells over an area of 1,500 square miles and have filled in nearly 80,000,000 cubic yards of trenches. We have sent back 990,000 refugees, opened 5,000 schools and reorganied 3,872 civic communities.

"That, gentlemen, is the reply to those who believe that we are standing with folded arms. . . . But I call your attention to the fact that those who state today that France is at the end of her strength, that she is exhausted by war and that she will not recover are those very people who shouted in 1914 that our defeat was inevitable, and who predicted that at the end of three months' fighting the French people, discouraged, would accept a dishonorable peace. . . .

"Gentlemen, you can have confidence in us. We are able to live. We desire to live. Help us to get out as quickly as possible from the difficult period we are now passing through. Help us to re-establish our commercial balance and

(Continued on page 43)

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PHILADELPHIA AS A BUILDING CENTER

A Classified and Tabulated Statistical Review of Structural Activities During 1919

Number of New Buildings Erected from January 1st to December 31st, 1919

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Operations.	Estimated Cost.
Amusement, Places of	..	..	..	1	..	1	..	1	..	1	2	..	6	$910,000
Armory	..	..	..	..	1	..	..	..	..	..	..	..	1	230,000
Banks	..	..	..	..	1	1	2	1	..	1	..	2	8	494,000
Churches	..	..	1	..	1	..	2	2	..	..	1	1	8	159,920
Dwellings, one-story	..	..	..	..	..	1	..	2	1	1	..	..	5	19,200
" two-story	2	23	301	491	710	857	697	460	335	221	185	360	4642	22,298,700
" three-story	13	16	41	48	123	110	60	56	33	33	23	12	568	5,148,865
" four-story	..	..	..	..	..	..	1	..	..	1	..	..	2	18,000
" frame	..	1	5	2	7	16	8	10	6	5	11	3	74	256,000
Engine and Boiler Houses	..	..	..	..	..	..	1	1	..	3	2	..	7	122,750
Garages	23	36	82	149	214	156	94	107	148	172	89	52	1322	2,726,540
Grain Elevator	..	..	..	..	..	..	..	1	..	..	..	..	1	15,000
Halls	..	..	..	..	..	..	..	..	..	..	1	..	1	45,000
Hospitals	..	..	..	..	..	1	..	..	..	..	..	..	1	110,000
Hotels	..	..	..	..	..	..	..	..	1	..	..	..	1	100,000
Manufactories	..	2	2	6	8	9	8	11	12	11	9	19	97	6,248,000
Municipal Buildings	..	..	..	3	..	8	..	..	..	1	..	..	12	633,400
Miscellaneous Buildings	4	7	10	15	9	12	15	22	10	14	22	7	147	140,855
Office Buildings	..	3	3	1	3	1	2	1	4	4	7	3	32	7,984,350
Power Houses	..	..	..	..	..	..	1	..	..	..	..	1	2	2,510,000
Railroad Stations	..	..	..	..	..	..	4	2	2	..	..	..	8	216,000
Round Houses	1	..	..	..	..	..	..	..	..	..	..	..	1	72,000
Schools	..	..	..	..	..	..	..	..	..	..	..	1	1	50,000
Stables	1	2	1	1	..	3	..	1	1	..	2	..	12	22,900
Stores	..	1	3	2	3	7	7	7	8	6	1	1	46	727,650
Tenement Houses	..	..	2	..	..	1	..	..	..	..	..	1	4	385,000
Warehouses	2	1	4	..	4	5	2	4	..	7	5	4	38	1,507,745
Workshops	2	2	3	6	8	4	8	6	8	7	10	3	67	176,830
Total New Buildings	48	94	458	725	1092	1093	912	695	569	488	370	570	7114	$53,329,205
Additions	50	77	122	182	219	226	223	239	177	172	125	109	1921	6,532,575
Alterations and Repairs	191	194	320	347	337	384	373	398	317	363	276	292	3792	4,475,880
Grand Total													12,827	$64,337,660
Fire Escapes													27	23,625
Heaters													134	120,165
Miscellaneous Work													1,448	563,970
igns													73	43,330
Total work of all kinds													14,509	$65.088,750

TWO-STORY DWELLINGS—Including Two-story Stores and Dwellings.

Wards.	11	13	17	18	20	21	22	23	24	25	26	27	32	33	34	35	38	39	40	41	42	43	44	45	46	47	48	T'ls.
January	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	2
February	..	..	..	..	..	..	8	..	..	..	..	..	..	..	..	4	..	..	..	1	10	..	..	..	..	..	..	23
March	1	..	..	..	..	..	48	1	..	..	..	..	42	..	31	..	37	..	8	..	115	..	..	2	16	..	..	301
April	..	..	..	..	..	1	..	17	7	..	..	..	..	..	27	29	..	..	117	5	252	6	1	..	29	..	..	491
May	..	..	..	8	..	2	22	7	..	..	18	..	..	39	87	21	..	3	35	41	225	19	..	..	12	..	171	710
June	..	..	..	..	..	2	..	..	..	..	34	..	..	..	69	28	..	200	116	..	333	..	..	..	75	..	..	857
July	..	..	..	..	..	4	28	60	..	..	1	..	..	37	99	16	..	..	24	64	299	..	2	3	60	..	..	697
August	..	..	..	..	..	..	26	8	..	..	..	..	..	16	87	40	1	..	108	13	152	..	6	3	..	..	..	460
September	..	..	..	..	1	1	1	2	..	..	..	..	..	58	44	19	22	..	47	8	120	..	..	2	8	1	1	335
October	..	..	..	..	..	1	..	5	..	20	..	..	..	4	90	19	..	..	33	1	39	9	..	..	..	..	..	221
November	..	..	..	..	..	..	..	4	..	..	..	1	..	..	48	3	..	..	99	1	28	..	..	1	..	..	..	185
December	..	1	1	..	..	..	21	4	21	..	..	..	..	..	142	1	..	..	101	..	68	..	..	..	..	..	..	360
Totals	1	1	1	8	1	11	154	108	28	20	53	1	42	154	724	180	60	203	689	135	1641	34	9	11	200	1	172	4,642

THREE-STORY DWELLINGS—Including Three-story Stores and Dwellings.

Wards.	3	4	5	11	13	21	22	23	26	30	33	34	35	38	40	41	42	43	44	46	T'ls.
January	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	13
February	..	..	..	..	..	..	..	4	..	..	..	..	6	..	..	..	..	..	..	6	16
March	..	2	..	..	..	2	2	..	..	..	..	2	..	2	..	..	27	..	..	4	41
April	..	4	..	..	2	..	..	2	..	..	..	34	6	..	..	..	..	..	..	..	48
May	..	1	..	..	..	..	12	4	1	1	..	45	9	..	..	..	44	1	..	5	123
June	1	..	..	..	..	2	32	6	..	..	..	36	1	..	..	..	18	..	..	14	110
July	..	..	4	1	..	1	4	..	..	..	1	33	4	..	..	2	9	..	1	..	60
August	..	2	1	..	..	3	26	2	..	..	..	2	3	..	..	..	1	..	..	16	56
September	..	..	1	..	..	1	..	20	..	..	..	7	..	..	..	..	3	..	..	1	33
October	..	..	..	..	..	2	6	..	..	..	..	17	8	..	..	..	..	..	..	..	33
November	..	..	..	..	..	..	4	..	..	..	..	3	1	..	2	..	13	..	..	..	23
December	..	..	..	..	..	..	..	..	..	..	..	4	..	..	..	..	5	..	..	3	12
Totals	1	9	6	1	2	11	86	38	1	1	1	183	38	2	2	2	120	1	1	62	568

(Continued from page 40)

to restore the normal exchange rate of our money, and you will see the old tree of France bringing forth new blossom and new fruit."

Interesting summaries of conditions in England, Belgium and Italy were also given by members of the missions from those countries.

Bulletin of the Associated General Contractors of America.

* * *

Comparative Durability of Green and Seasoned Timber.

Opinions of wood users have always differed as to the comparative durability of untreated green and seasoned timbers when used for poles, posts, or ties. Recent experiments conducted by the Forest Products Laboratory indicate that there is practically no difference in the relative durability of untreated green and seasoned timbers when exposed to the weather and in contact with the ground.

The following service records of ties laid by the laboratory in co-operation with the Northern Pacific Railway bear out this conclusion:

Life of Green and Seasoned Ties:

Place—Maywood, Wash. Species—Douglas Fir; Green; average life in years, 7.7.

Place—Maywood, Wash. Species—Douglas Fir; Seasoned; average life in years, 7.8.

Place—Plains, Mont. Species—Douglas Fir; Green; average life in years, 7.6.

Place—Plains, Mont. Species—Douglas Fir; Seasoned; average life in years, 7.7.

Place—Plaints, Mont. Species—Western larch; Green; average life in years, 7.3.

Place—Plaints, Mont. Species—Western larch; Seasoned; average life in years, 7.4.

In each of these cases the average life of seasoned ties was only one-tenth of a year longer than that of the green ties. This difference is obviously so slight as to be negligible.

Periodical measurements on poles made by the laboratory in co-operation with the American Telephone and Telegraph Company show that the rate of decay in green poles is a trifle less than in seasoned poles.

The fact that green and seasoned timber have the same durability when used in exposed places is easily explained. Moisture content is the principal factor in determining the rate of decay of a stick of timber. As soon as the timber is placed it begins to take up or give off moisture, according to its condition of seasoning and the conditions of exposure. Within a relatively short time in exposed construction both green and seasoned timber reach the same moisture content.

When used in buildings, however, wood does not usually dry out rapidly after being placed. Wood for interior construction must be seasoned before use, otherwise, it is likely not only to shrink to a serious extent but also to decay before it seasons. Very expensive building repairs have been necessitated by the use of green timber.—*National Builder.*

* * *

UNION OF UNIONS TO STIMULATE BUILDING

To stimulate building 41 unions in New York City have organized and will meet soon in the office of the City and Suburban Homes Company, 624 Madison avenue, to discuss plans for the stabilization of wages and the encouragement of building operations.

At a preliminary meeting 41 unions were represented, all in the building trades except the bricklayers and masons. It was pointed out at the meeting that capital is hesitating in its support of new construction because of the constanly increased wage demands and consideration was given the suggestion of Major Warren Bigelow and Mr. Robert H. Brush, representing the Re-employment Bureau for Soldiers, Sailors, and Marines, that a definite wage scale be fixed.

Following the next conference it is expected a mass meeting will be called so that the proposition can be laid before all the union men.—*Exchange.*

The only road to advancement is to do your work so well that you are always ahead of the demands of your position. Our employers do not decide whether we shall stay where we are or go on and up; we decide that matter ourselves. Success or failure is not chosen for us: we choose them for ourselves.—H. W. Mabie.

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These are high grade pressed bricks, manufactured of crushed stone and hydrated lime. Greater crushing strength and lower absorption than burned clay. Uniform in shape and size. No soft ones. They are beautiful, economical and everlasting.

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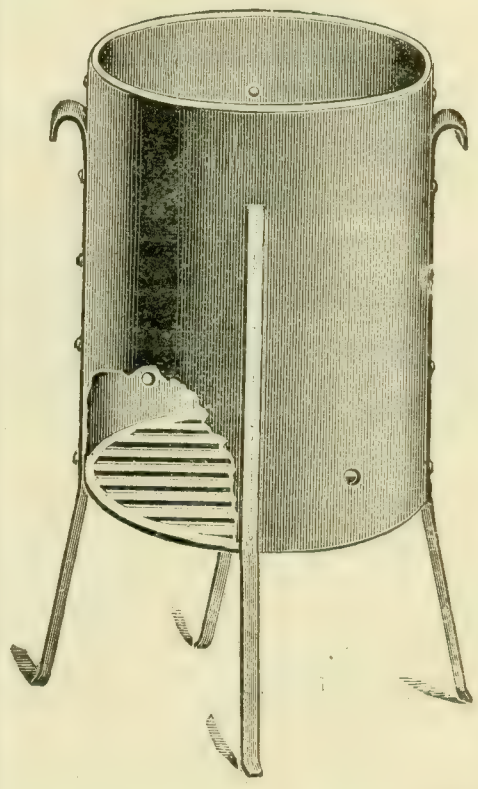
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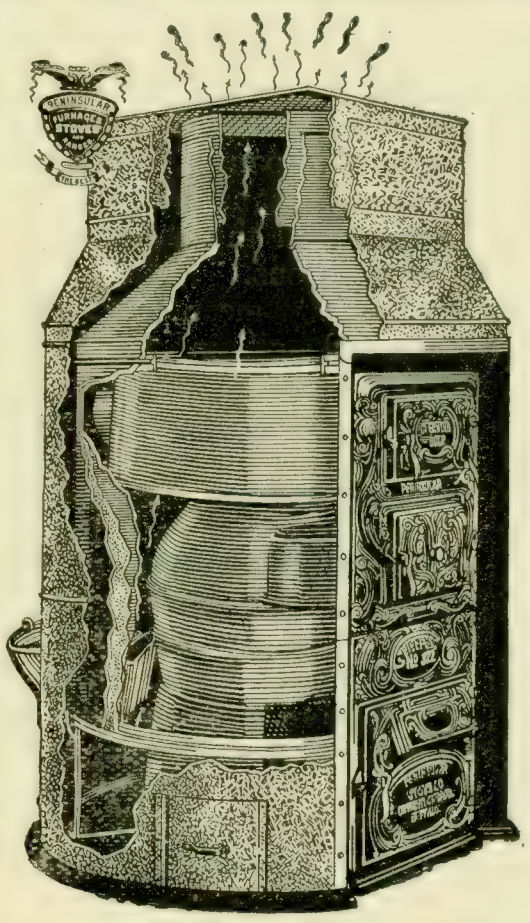
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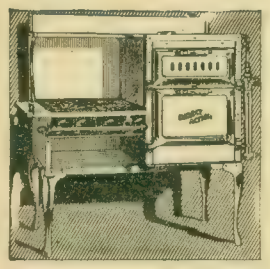
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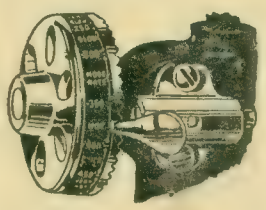
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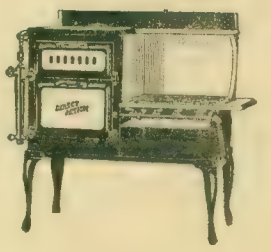


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January 21, 1920

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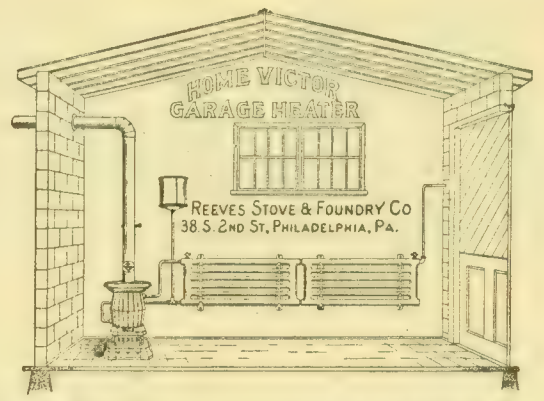
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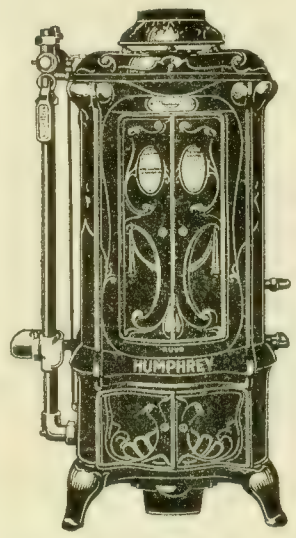
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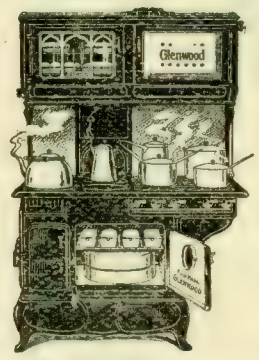
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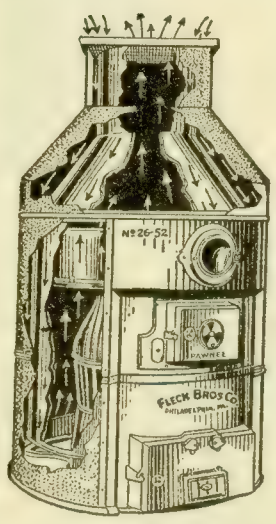


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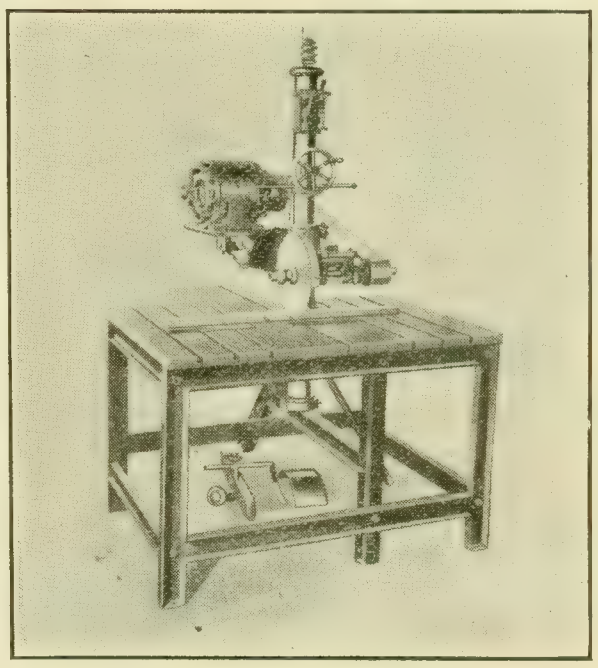
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As The Editor Sees It

OUT of the great scarcity of all kinds of buildings today, the realization is dawning upon us that fire prevention methods are most worthy of consideration. It is often not until conditions arise which command attention that we awake to the seriousness of such situations as the great annual loss of life and property by fire.

At the present time property is valuable, labor is scarce and every possible means is being used to safeguard both. The campaign carried on by the National Board of Fire Underwriters through their bulletin, "Safeguarding America Against Fire," is bearing fruit, and people are realizing more and more the great need for adequate protection from the fire peril. According to the afore-mentioned bulletin, industrial fires in the United States are more frequent and more serious than is generally realized. Not only do they make up the largest portion of the total fire loss, since the average industrial fire will outweigh in damage a number of fires in dwellings, but they also include a shocking total of fatalities. These fatalities, of course, are almost entirely among the workers. The question of industrial fire peril thus becomes of vital importance to labor. Indeed, it is one of the subjects which labor organizations may well take up for serious consideration. It is also one of the subjects to which industrial and trade organization may accord quite as serious consideration. The viewpoint is opposite but the interest is mutual.

Labor risks its life when working under hazardous conditions. It can and should insist that premises be made as safe as conditions will permit. On the other hand, labor itself furnishes one of the chief causes of industrial fires. The ignorant or careless workman is a hazard to his fellows as well as to the plant in which he is engaged.

Labor thus has its plain rights in the matter of fire protection and its direct responsibility in the lessening of fire causes. One phase is physical, the other psychological, but both are essential.

The manufacturer, too, must not consider solely the financial aspect of industrial fires. It is even more important that he realize to what a great extent the lives of the operatives are dependent upon his care and oversight. He should never wait until compelled to make improvements; rather, he should take the lead in assuring to his workers the safety which they have the right to expect.

Industrial fires, like all others in which damage occurs, involve two factors; namely, the conditions which permit the flames to spread, and the original causes. In the first of these, the management is usually responsible; in the second, labor bears a large part. All told, the responsibility of the manufacturer outweighs that of the workman.

This matter is worthy of consideration at any time, but at the present moment, when the country is so greatly in need of speedy production, the importance of guarding against fire is far greater than ever before.

A recent issue of the Bulletin of the State Fire Marshal of Minnesota tells us that the charred remains of one year's fires in the United States would line both sides of a highway 1,000 miles long, and yet 80 per cent. of this is preventable.

A summary of the fire causes in various states shows that fires attributable to chimneys amount annually to from 10 to 26 per cent. of the total number in winter, the percentage has reached as high as 50. Especially in rural districts, where there are no organized fire-fighting agencies, builders should give unusual attention to the construction of chimneys that they may be made as nearly fire-proof as possible.

Chimneys should not be built on brackets; they should extend a sufficient distance above the roof, their walls should be at least 8 inches thick, flues should not be less than 64 square inches, the flueholes should never be filled with inflammable material and good flue linings of fine clay or terra-cotta should be provided. The cost of such lining in an ordinary two-story residence would be nominal.

With the present tremendous demand for new buildings and the consequent

(Continued on Page 62.)

DRAWING MATERIALS

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Residence and Garage, Camac and Chelten avenue, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, M. Nierenberg, 1007 Land Title Building, Philadelphia. Stone and stucco, 2½ stories, 26x35 feet. Garage, 1 story, brick, 14x20 feet, slate roof, hot water heating, electric lighting, tile work, pine hardwood floors, ornamental plastering. Plans in progress.

Stores and Apartments (7), Passyunk avenue, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Herman Toub, Seventy-first and Buist avenue, Philadelphia. Brick, 2 stories, irregular sizes. Garages, brick, 1 story, 15x20 feet, slag roof, pine floors, hot water heating, electric lighting, stone foundations. Architect is ready for sub-bids.

Store and Dwelling (int. alts.), 2129 South street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, I. Edes, on premises. Changing and new partitions, brick work, slag roof, pine floors ,hot water heating, electric lighting. Architect is ready for sub-bids.

Stores and Apartments (4), 635-37-39-41 South street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, M. Rutberg, 708 South Fourth street, Philadelphia. Brick, 3 stories, 18x70 feet. Garages (4), 1 story, 16x20 feet, slag roof, pine and cement floors, stone and concrete foundations, hot water heating, electric lighting, tile work, hollow metal skylights, flush bulk. Architect will be ready for sub-bids in a week.

Service Station, 250-252 North Juniper st., Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, W. B. McCullough, Elkins Park, Pa. Brick, 2 stories, 36x100 feet, slag roof, cement floors, steam heating, electric lighting. Architect ready for bids.

Church (alts.), 616 South Broad street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners. St. Mary's P. E. Church, on premises. Demolition of building, filling cellar, iron fence, lot 20x65 feet, cement work, plastering. Architects have received bids.

Store Building (alts.), Front and Market streets, Philadelphia. Architects, Hoffman, Henon Co., Inc., Finance Building, Philadelphia. Owners, A. Schulte Co., 386 Fifth avenue, New York City. Brick work, carpentry and mill work, sheet metal work, plastering, tile work, plumbing, electric work, steam heating, metal lath. Architects have received bids.

Store and Apartments (alts. and add.), 1335-37.39 Erie avenue, Philadelphia. Architect, Wm. H. Wooters, 816 W. Allegheny avenue, Philadelphia. Owner, Frank C. Snedaker, Ninth and Tioga streets, Philadelphia. Brick, 2½ stories, 65x60 feet, tile and slag roof, pine floors, electric lighting, tile work, marble work, new partitions. Owner is ready for bids.

Country Club (add.), Chestnut Hill, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Whitemarsh Valley Country Club, Chestnut Hill, Pa. Brick and stucco, 1-story kitchen addition, 32x36 feet, enclosed porch, 36x90 feet, shingle roof, maple and composition floors, tile work, refrigeration, iron stairs, iron work, painting, glazing, dumbwaiter, plastering, hardware, millwork. Architect taking bids, due January 22nd. Thos. C. Trafford, 1613 Sansom street; W. O. Springer, 1624 Latimer street; H. E. Baton, 1713 Sansom street, and Specht & Sperry, Heed Building; A. L. Fretz & Son, Heed Building, are figuring.

Building (alts.), Fifty-second and Market streets, Philadelphia. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owner's name withheld. Plumbing, cement work, plastering, electric work, tile work, steel work, millwork, carpentry, pine floors. Architects have received bids.

Store Building, 1419 North Broad street, Philadelphia. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick and cut stone, 2 stories, 160x21 feet, slag roof, maple floors, stone foundations, steam heating, electric lighting, tile work, metal ceilings, iron work. Architect has received bids.

Temporary Engine Room, Thirty-first and Chestnut streets, Philadelphia. Engineer, Wm. H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets. Engineer taking bids. W. O. Springer, 1624 Latimer street; Drehmann Paving Co., Twenty-sixth and Oxford streets, and H. W. Geshwind, 761 North Twenty-sixth street (refrigerating and piping), are figuring.

Residence (alts.), Carpenter street, between Mower street and Germantown avenue. Architects. Heacock & Hokanson, Bailey Building, Philadelphia. Owner, J. Linden Heacock, Bailey Building, Philadelphia. General alterations. Plans in progress. Too early for details.

Store Building (alts.), 703 Girard avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Goldstein, Grossman & Herback, on premises. New front and interior alterations. Plans in progress.

Community Garage, Sixth street, north of Rockland street, Philadelphia. Architect, J. H. Hamilton, City Hall, Philadelphia. Owners, O. F. Zurn Co., Broad and Lehigh avenue, Philadelphia. Owners taking bids. F. A. Havens Co., 845 North Nineteenth street, additional bidders.

Experimental Shop Building, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Brick, concrete and steel, 3 stories, 58x200 feet, slag roof, cement and maple floors, hollow tile, metal lath, elevators, waterproofing, dampproofing, stone foundations, rolled steel sash, kalamein and hollow metal doors, iron work. Lowest bidders: Hughes-Foulkrod Co., Commonwealth Building, $171,-131; Thomas Reilly, 1616 Thompson street, $188,588; M. H. McCloskey, Jr., Inc., 1620 Thompson street, $190,888.

Store Building (alts. and add.), 1508-10 South street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, A. Sternberg, 1234 Market street, Philadelphia. Brick, 2 stories and basement, brick work, new fronts, cut stone work, electric lighting, plumbing, slag roof, marble and tile work, hardwood floors, glazing, painting, millwork and stairwork. Architects taking bids, due January 22nd. Hogg Const. Co., Denckla Building; Lam Building Co., 1001 Wood street; Wm. R. Dougherty, 1610 Sansom street; Frank G. English, 1610 North Carlisle street; F. E. Wallace, 1220 Latimer street; F. A. Havens & Co., 845 N. Nineteenth street, are figuring.

Building (alts.), 713 Sansom street, Philadelphia. Owners, Lashof & Silberman, 707 Sansom street, Philadelphia. Architects, Greisler & Abramson, Lafeyette Building, Philadelphia. Brick and steel, composition floors, metal lath, heating, repairs, electric lighting, tile and marble work, iron work, plastering, plumbing, glazing, painting, mill work. Architects have received bids.

Store Building and Garage (add. and alts.), Memphis street, north of Tioga street, $4,000. Architect, private plans. Owner, John M. Kennedy, 1001 Chestnut street, Philadelphia. Brick, 1 story, 40x77 feet, slag roof, cement floors. Owner will build.

Building (alts.), 5706 Germantown avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, John S. Trower, Inc., 5706 Germantown avenue. Brick work, carpentry, steel and iron work, plastering, painting and glazing, electric work, composition floors, hardware, hot water heating. Architect taking bids, due January 23rd. H. John Homan Co., Middle City Building; Samuel Harting, 20 East Johnson street; Wm. C. Wright, 22 Harvey street; J. Sims Wilson Co., 1125 Brown street, and Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia, are figuring.

Residence (alts.), 8901 Germantown avenue. Architects, Willing & Sims, 1627 Sansom st., Philadelphia. Owners. Chestnut Hill Hospital, Chestnut Hill, Philadelphia. Pine floors, slag roof, tile and marble work, carpentry, plastering, painting, glazing (heating, lighting and plumbing separate bids). Architects have received bids.

Factory (add.), southwest corner of Sixth and Tabor Road, $72.000. Architect, private plans. Owners, Philadelphia Textile Machin-



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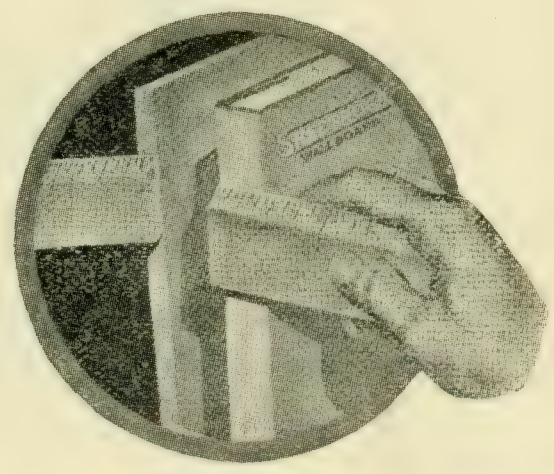
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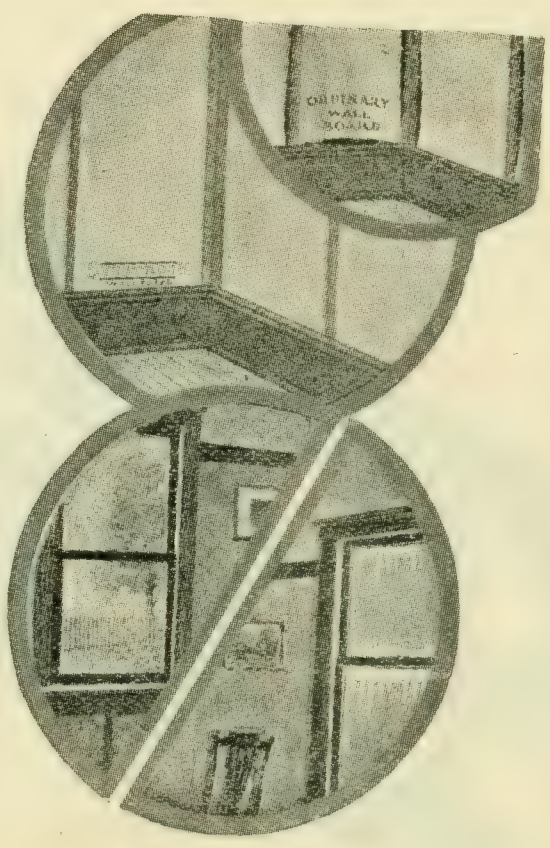


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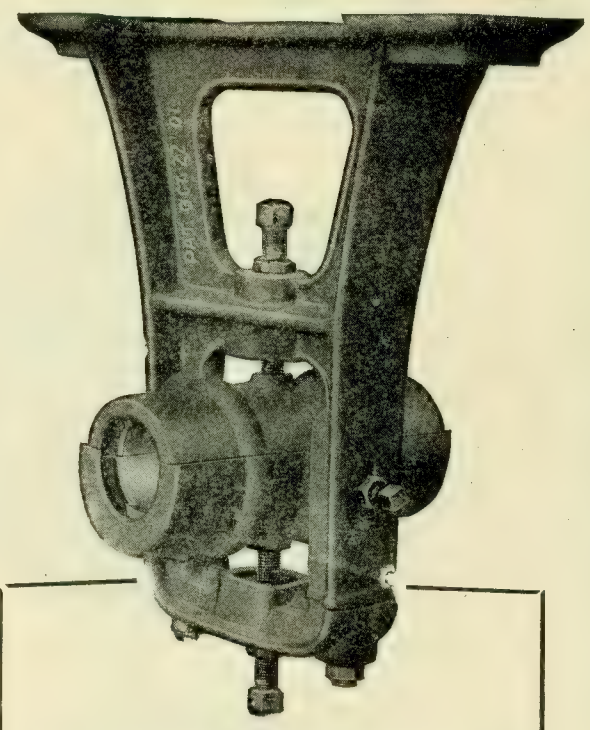
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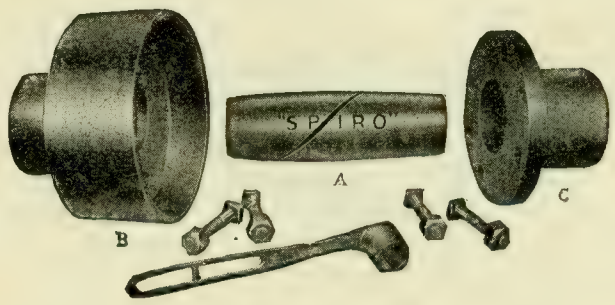
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Residence, D street, south of Ontario street, Philadelphia, $4,000. Architect, private plans. Owner, Ernest J. Gilbert, 3337 Emerald street, Philadelphia. Brick, 2 stories, 16 feet 8 inches x50 feet, slag roof, electric light. Owner will build.

Residences (21), (6) Sixty-second and Ludlow streets and (15) Sixty-second and Chestnut streets, Philadelphia, $202,000. Architect, private plans. Owner, Sol Hopkins, Sixtieth and Pine streets, Philadelphia. Brick, 2 and 3 stories, 16x23½ feet, 13x33 feet 9 inches, hot water heat. Owner will build.

Office Building, 1716-18 Market street, Philadelphia, $1,000,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Thommen Co., 1520 Market street, Philadelphia. Agent, C. J. Mitchell, Lincoln Building. Brick, stone, steel, concrete and terra cotta, 14 stories, steam heating, electric lighting, tile and marble work, metal lath, elevators. Plans n progress.

Warehouse, Fletcher street and Sedgley avenue, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, L. Bernstein, on premises. Brick, 2 stories and basement, triangular, 60x60 feet, slag roof, concrete and pine floors, freight elevator, stone foundations, steam heat, electric lighting, rolled steel sash, rolling steel doors, structural steel. Plans in progress. Owner will be ready for bids in a few days.

Building (alts.) to Store and Apartments, 1813 Susquehanna avenue, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner's name withheld. Brick, stone and plate glass front, 3 stories, general interior alterations, new tin roof, hardwood floors, hot water heating, electric lighting, tile and marble work, hollow metal skylights, galvanized iron cornice, painting, concrete work, steel work. Architect will be ready for bids in a few days.

Maternity Building, Thirty-sixth and Spruce streets, Philadelphia. Architect, Arthur H. Brockie, 1715 Sansom street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Carpentry, terrazzo and marble work, hardware, painting, glazing, metal lath, repairing floors (electric work and heating reserved). Architect taking bids, due January 26th. Irwin & Leighton, 126 North Twelfth street; F. L. Hoover & Son, 1023 Cherry street; F. E. Wallace, 1220 Chancellor street; H. H. Burrell, 206 South Quince street; H. E. Baton, 1713 Sansom street; H. E. Grau Co., 1709 Sansom street, are figuring.

Automobile Show Room, Delaware avenue and Tatnall street, Wilmington, Del. Architect, Chas. E. Oelschlager, 1615 Walnut st., Philadelphia. Owners , Gomery Schwartz Motor Car Co., Broad and Cherry streets, Philadelphia. Concrete, steel and ornamental terra cotta, 2 stories, 71x123 feet, slag roof, terrazzo floors, holow tile, metal lath, stone foundations, electric lighting, steam heating, tile and marble work, rolled steel sash, hollow metal skylights, fire doors. Architect will be ready for bids in a few days.

Residences (24), north side of Walnut street, Forty-seventh to Forty-eighth street. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. Sonnenfeld, 187 South Sixty-third street, Philadelphia. Stone and brick, 2 stories, 20x60 feet, slate, slag and asbestos roof, hardwood floors, metal lath, stone foundations, hot water heat, combination lighting, tile and marble work. Plans about completed. Owner will be ready for sub-bids in a few days.

Sales and Service Station, 2512 North Broad street, Philadelphia, $25,000. Archi-

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tect, private plans. Owners, Quaker City Motor Parts Co., Richmond and Tioga streets. Brick, 2 stories, irregular shape, 27 and 46x 22 feet, 50 and 100 feet, slag roof, cement and pine plank floors, steam heating, electric lighting. Owners will build.

Theatre and Apartment House, Sixty-ninth and Market streets, Philadelphia, $300,000. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, P. J. Lawler, Cynwyd, Pa. Brick, concrete, steel and terra cotta, 5 stories, seating capacity of theatre, 2,500, 100 apartments, 41 stores, slag roof, oak floors, steam heating, electric lighting, tile and marble work, cement work. Owner will build.

Store and Apartments (alts. and add.), 5211 Girard avenue. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Jacob Zinkoff, on premises. Brick, three-story addition, 18x16 feet, slag roof, general alterations, hot water heat, electric light, flush bulks, hardwood and pine floors. Owner taking bids. Robbins Cont. Co., 1137 North Front street, is figuring.

Garage, Forty-ninth and Market streets, Philadelphia. Architects, Reinhold & Land, 1513 Walnut street, Philadelphia. Owner's name withheld. Brick, concrete and steel, 4 stories, 100x214 feet, slag roof, cement floors, steam heat, electric light, 2 elevators, rolled steel sash, hollow metal skylights. Architects taking bids, due as soon as possible. J. H. Feeser, Liberty Building; Standard Construction Co., 1713 Sansom street; M. H. McCloskey, Jr., Inc., 1620 Thompson street; Alex. Chambley, 2057 Summer street, and J. M. Yardley, 1716 Sansom street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store (alts.), northeast corner of Fifth and Market streets, Philadelphia. **Architects,** Clark & Dudnick, Drexel Building, Philadelphia. Owner, S. Aaronberg, care of architects. Metal lath and plaster partitions, flush bulks, marble work, lighting fixtures, structural steel. Contract awarded to Jacob Getzek, 1423 Germantown avenue.

Residence (alts. and add.), 2309 North Park avenue, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owner, Clarence L. Myers, on premises. Brick work, carpentry, millwork, painting, plumbing, hot air heating, electric lighting, tile and marble work, oak floors, roof repairs. Contract awarded to Charles B. McCall, Sixty-fifth avenue and Park avenue, Oak Lane, Philadelphia.

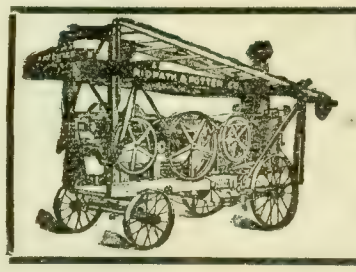
Building (alts.), eighth floor, 329 South Broad street, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Pennsylvania Garage Co., on premises. Lessees, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Office partitions, millwork, carpentry. Con-



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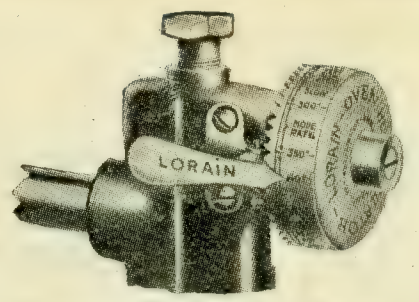
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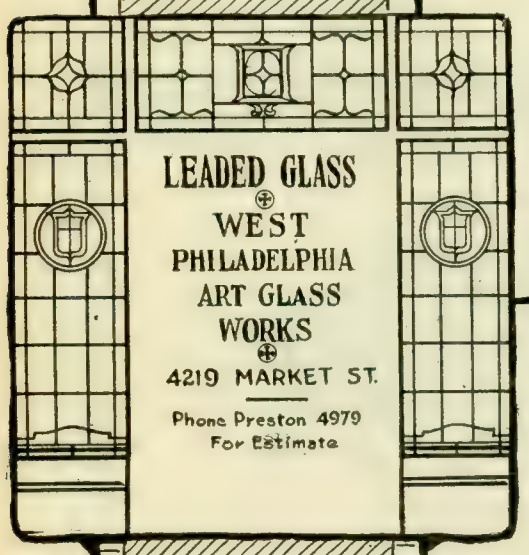
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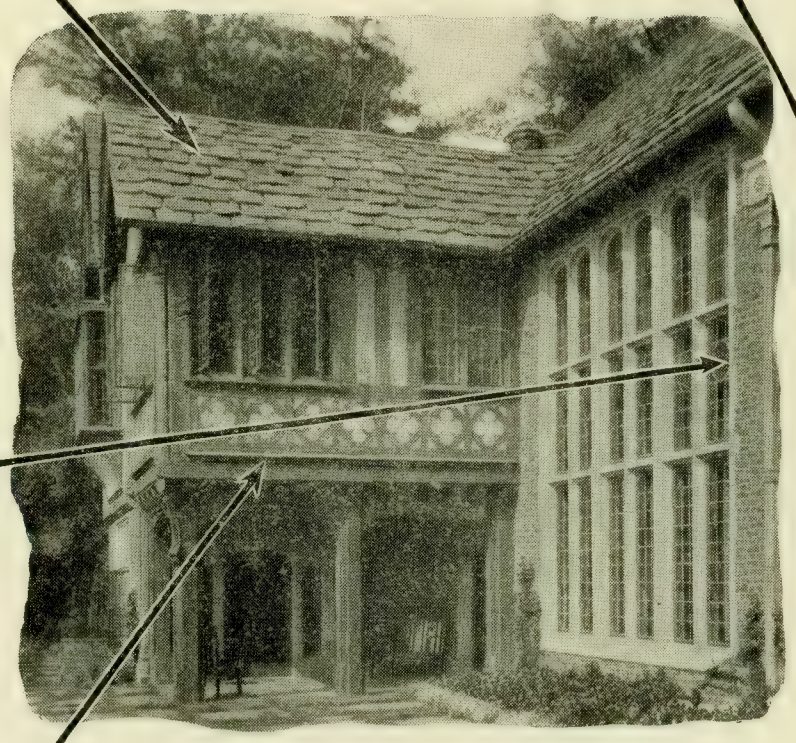
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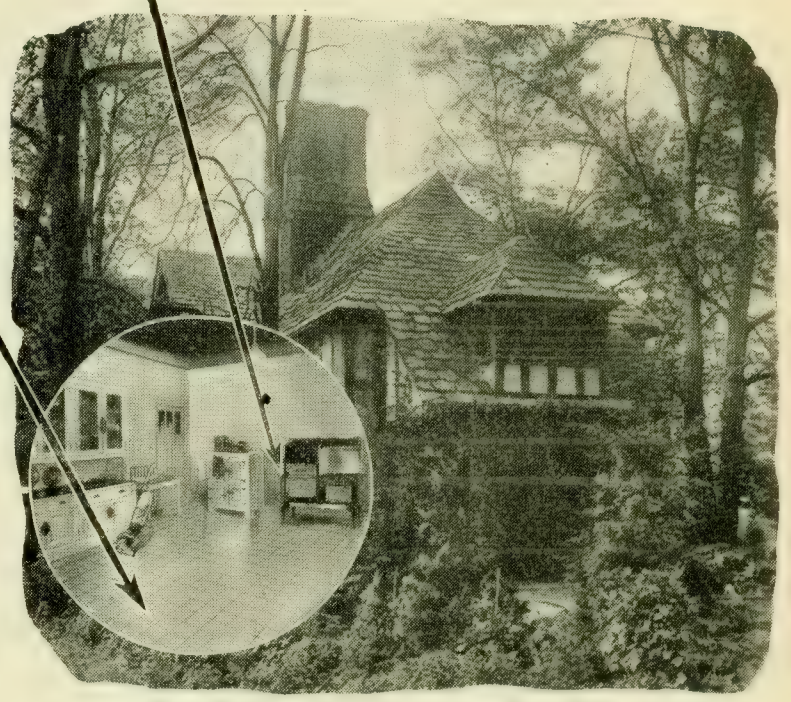
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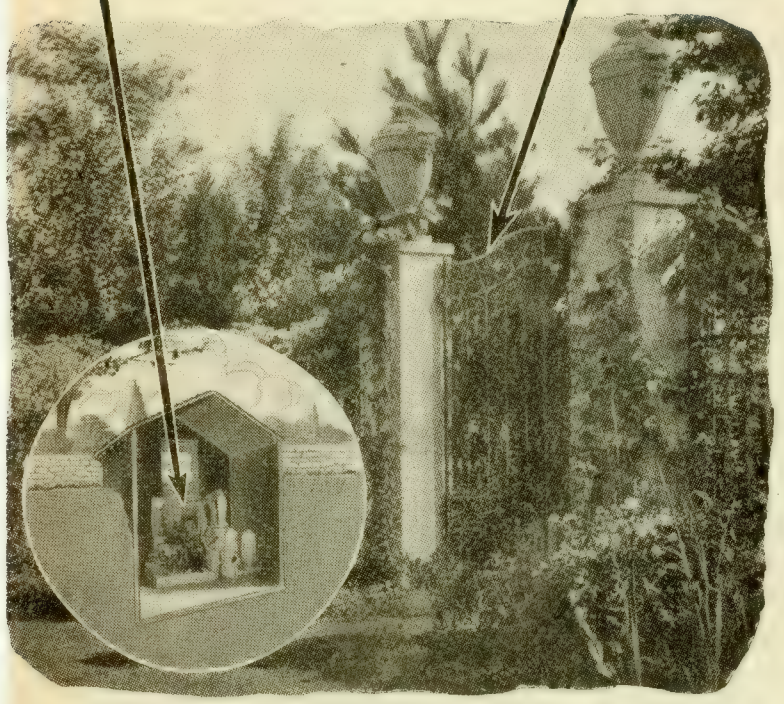
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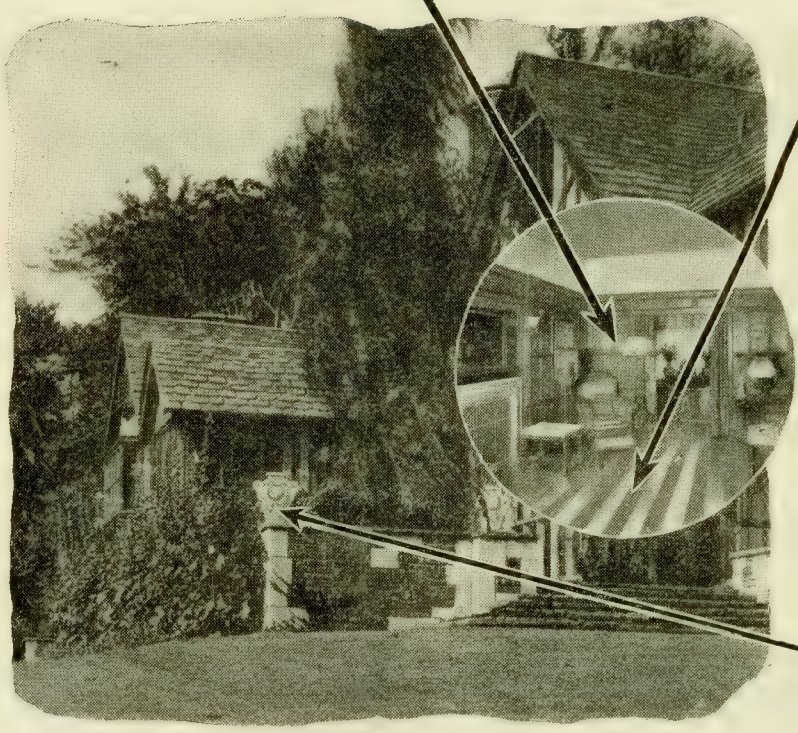
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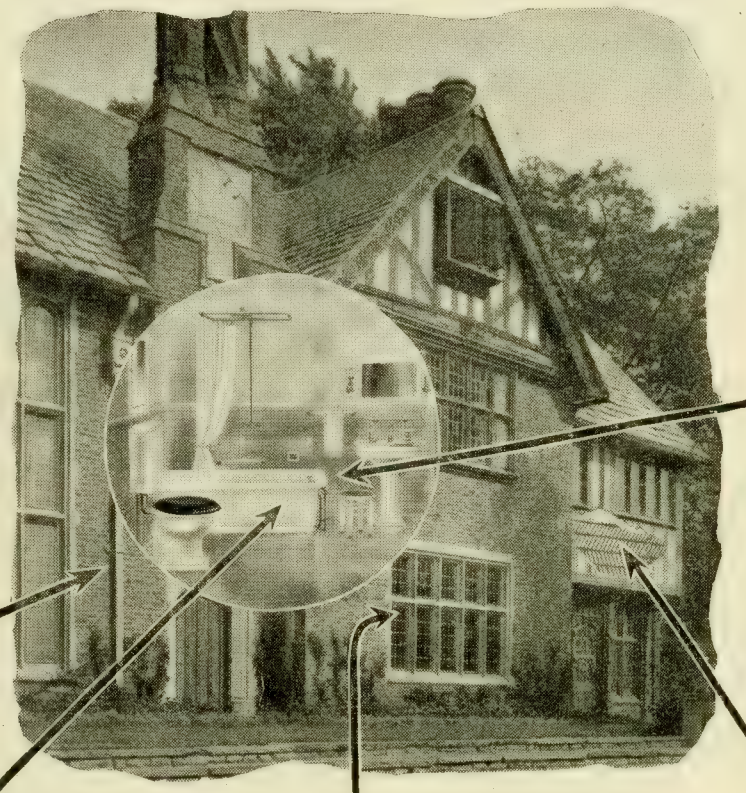
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tract awarded to Ketcham & McQuade, 1029 Brown street.

Garage, north side of Pentridge street, west of Fifty-first street, $20,000. Architect, private plans. Owner, Walter Smith, 2322 North Carlisle street, Philadelphia. Brick, 1 story, 60x120 feet, slag roof, cement floors. Contract awarded to Charles E. Biddle , 1105 Real Estate Trust Building.

Factory (add.), Fifth and Master streets, Philadelphia, $18,000. Architect, private plans. Owners, Drueding Bros., on premises. Brick, tenth-story addition, 91x101 feet 3 inches, slag roof, electric light. Contract awarded to Wm. Steele & Sons Co., 1600 Arch street.

Abbatoir (add.), 813-17 South Front street, $12,000. Architect, Alexander Adams, 1012 Walnut street, Philadelphia. Owner, R. Imperiale, 743 South Seventh street, Philadelphia. Brick, 1 story, 80x27 feet, 48x25 feet, slag roof, cement floors (heating and lighting under separate contract). Contract awarded to Penn Const. Co., 902 Bulletin Building, Philadelphia.

Manufacturing Building (alts.), 1537-41 N. Randolph street, $10,000. Architect, private plans. Owners, Jas. H. Billington Co., 113 Chestnut street, Philadelphia. General fire repairs, glazing, brick work, carpentry, mill work. Contract awarded to F. L. Hoover & Sons, Inc., 1023 Cherry street.

Garage (alts.), 220-222 South Sydeham st., $2,000. Architect, private plans. Owner, M. Paul, 1608 Market street, Philadelphia. General alterations. Contract awarded to C. M. Swartley, 6835 Ridge avenue, Philadelphia.

Garages (2), Windrim avenue, east of Thirteenth street, Philadelphia, $7,000. Architect, private plans. Owner, Adolph Schuck, 5121 North Warnock street, Philadelphia. Brick and iron on iron, 1 story, 60x38 feet and 80x19 feet. Contract awarded to David Sterrett, 924 Duncannon street, Philadelphia.

Residence (alts.), Ridge avenue and Jamestown street, $2,200. Architect, private plans. Owner, Morris Propper, on premises. General alterations. Contract awarded to C. M. Swartley, 6835 Ridge avenue, Philadelphia.

Superstructure, Engine House No. 4, Lardner's Point Pumping Station. Architect, private plans. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Brick, terra cotta and steel, 1 story, 63x78 feet, slag roof, pine and concrete floors, hollow metal sash. Contract awarded to Charles H. Dading, Bellevue Court Building.

Store and Dwelling (alts. and add.), 6419 Woodland avenue. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John Averell, on premises. Changing store and dwelling into store and two apartments, garages in rear. Brick, two-story side addition, 67x3 feet; rear addition, 1 story, 18x60 feet, slag roof, hardwood and cement floors, hot water heating, electric lighting, tile and marble work. Contract awarded to Julius Nelson, Sharon Hill, Pa.

Store and Dwelling (alts. and add.), northwest corner of Richmond and Cambria streets, $5,000. Architect, private plans. Owners, Polish Eagle Corporation, 2846 Richmond street, Philadelphia. Brick addition, 2 stories, 14x16 feet, slag roof. Contract awarded to the Richmond Co., 2732 East Allegheny avenue.

Gymnasium (alts.), Church Lane and Chew street, Germantown, $18,000. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Jewish Foster Home, on premises. Concrete and brick work, waterproofing, maple floors, marble and tile work,

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roof repairs, hardware, painting, glazing, repairs to heating, plumbing. Contract awarded to Wm. R. Dougherty, 1610 Sansom street, Philadelphia.

Store and Dwelling (alts.), 120 South Sixtieth street, $1,800. Architect, private plans. Owner, Samuel Roper, 122 South Sixtieth st., Philadelphia. New front, flush bulk, plate glass. Contract awarded to James H. Porter, 205 South Sixtieth street, Philadelphia.

Residences (2), to Apartment, northeast corner of Twenty-third and Green streets. Architect, J. E. Fieldstein, Penfield Building, Philadelphia. Owner, Charles M. Lavin, 2310 Green street, Philadelphia. Brick addition, 3 stories, 9x25 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work, plumbing, millwork, plastering, plumbing. Contract awarded to Wm. R. Graham, 3649 Filbert street, who is taking subbids.

Cooling Tower, Second street, Bread and New streets, $40,000. Architect, private plans. Owners, H. O. Wilbur & Sons, 235 North Third street, Philadelphia. Iron, 23x140 feet, 30 feet high. Contract awarded to Edwin Burhorn Co., 25 West Broadway, New York.

Garage (add.), Sixtieth and Baltimore avenue, Philadelphia, $10,000. Architect, private plans. Owners, Holland & Prettyman, on premises. Brick, 1 story, 18x100 feet, 28x16 feet, and 36x102 feet. Contract awarded to Edw. Holland, 1027 South Fifty-fourth street, Philadelphia.

Store and Storage, 936 Arch street, Philadelphia, $5,700. Architect, private plans. Owner, H. Gittleman, 934 Arch street, Philadelphia. General alterations. Contract awarded to Max Cotler, 1220 North Forty-second st., Philadelphia.

Office (add.), James street, north of Tucker street, $3,000. Architect, private plans. Owner, Fayette R. Plumb, 4835 Tacony street, Philadelphia. Reinforced concrete, 1 story, 18x28 feet, slag roof. Contract awarded to Rust Eng. Co., Pennsylvania Building, Philadelphia.

Residence (add. and alts.), 1628 Vine street, Philadelphia, $2,500. Architect, private plans. Owner, D. R. MacGregor, 1224 Chancellor st., Philadelphia. Brick, 1 story, 4½x38 feet, general alterations. Contract awarded to A. B. MacGregor, 1224 Chancellor street, Philadelphia.

Building (alts.), 907-9 North Broad street, Philadelphia, $27,400. Architect, Harry B. Weldon, 34 South Seventeenth street, Philadelphia. Owner, Louis J. Kolb, Tenth and Reed streets, Philadelphia. Agent, Harry T. Saunders, 31 South Eighteenth street, Philadelphia. Brick, 2 stories, 97x40 feet, wing 21x62 feet, slag roof, cement floors, metal lath, roof ventilators, stone foundations, steam heating, electric lighting, rolled steel skylights, iron work. Contract awarded to Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia.

Garage, Main street, north of Dupont street, $3,000. Architect, private plans. Owner, Jos. M. Adams, on premises. Brick, 1 story, 30x30 feet, slag roof, cement floors, electric lighting. Contract awarded to E. L. Cuthbertson, 334 Roxborough avenue.

Dwellings (2), south side of Unruh street, west of Rising Sun Lane, $5,800. Architect, private plans. Owners, Fred Menzel & Noah Cope, 2839 North Marshall street. Frame, 2 stories, 14½x47½ feet, slag roof, pipeless heating. Contract awarded to Economy Contractors and Builders, 7990 Oxford avenue.

Store (add. and alts.), 342-46 North American street, $10,000. Architect, private plans. Owner, Louis Pincus, on premises. Brick, 1 story, 9x17 feet, general alterations. Contract awarded to United Cork Co., 1632 Land Title Building.

Apartment House (add. and alts.), 1430 Louden street, $6,100. Architect, private plans. Owner, Frank S. Punellie, 1432 Louden st., Philadelphia. Brick, 3-story addition, 20x13 feet, 20x8 feet and 20x55 feet, general alterations. Contract awarded to Cooper & Shmukler, 411 Tasker street, Philadelphia.

Garage (alts.), 1141-43-45 Vine street, Philadelphia, $3,900. Architect, private plans. Owner, George Nass Estate, Twenty-third and Dauphin streets, Philadelphia. General fire repairs. Contract awarded to Stewart Bros. Co., 2528 North Orkney street.

Market House, northeast corner of Gordon and Gaul streets, $19,000. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owners, Greenblatt Bros. & Fass, 2425 E. Dauphin street, Philadelphia. Reinforced concrete, steel and brick, 1 story and basement, 70x100 feet, slag roof, reinforced concrete floors, steam heat, electric light, rolled steel sash, hollow metal skylights, steel rolling doors, 1 electric elevator. Contract awarded to Wm. Ariff, 352 Gladstone street, Philadelphia.

Residences (2), Verree Road, south of Afton street, $8,000. Architect, private plans. Owner, Wm. Richmond, 2939 North Eighth street, Philadelphia. Frame, 2 stories, 16x36 feet, slag roof, hot water heating. Contract awarded to Jacob Hansen, 717 Brown street, Philadelphia.

Shop, 525-527 South Sixty-first street, Philadelphia, $2,000. Architect, private plans. Owner, Harry H. Johnson, on premises. Brick, 1 story, 40x42½ feet, slag roof, cement floor, electric light. Contract awarded to John J. Craig, 4941 Catharine street.

Store and Dwelling (alts.), 3435 Germantown avenue, $2,600. Architect, private plans. Owner, E. Whitehead, on premises. General alterations. Contract awarded to Wm. L. Bushnell, 2146 East Norris street.

Garage, Main street, west of Walnut Lane, $8,000. Architect, private plans. Owner, A. Janarski, on premises. Brick, 1 story, 38x100 feet, slag roof, cement floor, electric lighting, steam heating. Contract awarded to John J. Hurley & Co., 4416 Cresson street.



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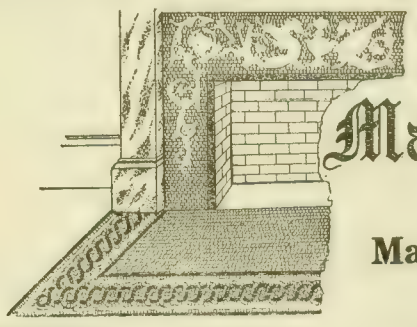
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PENNSYLVANIA Construction News

Factory Buildings (2) and Office, Reading, Pa. Architect, not yet selected. Owners, Schwartz Motor Truck Co., care of Mr. H. B. Schwartz, Reading. Brick, steel, 1 and 2 stories, 120x600 feet, electric light, rolled steel sash, fire doors. Too early for details.

Bank (alts. and add.), Reading, Pa. Architects, Ritcher-Lee Co., Sixth and Court sts., Reading, Pa. Owners, First National Bank, care of Edw. S. Nolan, president, Reading, Pa. Brick, 1 story, composition roof, wood floors, marble and terrazzo work, new vault, directors' room, interior alterations. Plans in progress.

Theatre (alts.), Easton, Pa. Architects, Architects, Ritcher-Lee Co., Sixth and Court streets, Reading, Pa. Owners, Third Street Theatre, care of Harland Woehrle, Easton, Pa. Enlarge seating capacity, new staging, auditorium repairs, ornamental plaster. Plans in progress.

Factory, West street, Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owners, F. Y. Kitzmiller Co., 426 Penn street, Reading, Pa. Mill construction, 4 stories, 133x49 feet, composition roof, wood floors, electric lighting, elevators. Plans in progress.

Store and Apartment (alts.), Tenth and Penn streets, Reading, Pa. Architect, Calvin Young, 520 Washington street, Reading, Pa. Owner, George Thomas, on premises. Brick, 3 stories, 60x20 feet, stone foundations, slag roof, pine floors, hot water heating, electric ligting, terrazzo work. Plans in progress. Architect will take bids in one week.

Farmhouse (alts. and add.), Rose Tree, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Charles Leedom, Rose Tree, Delaware County, Pa. Stucco, 2½ stories, 36x20 feet, shingle roof, waterproofing, cement and composition floors, metal lath, electric lighting, tile work, stone foundation (heating reserved), iron work. Architects have received bids.

Maternity Hospital, Bryn Mawr, Pa. Architect, Franklin Abbott, 389 Fifth avenue, New York City. Owners, Bryn Mawr Hospital, Bryn Mawr, Pa. Brick, granite and steel, 40x88 feet, wing 40x20 feet, waterproofing, concrete roof, composition and oak floors, hollow tile, metal lath, elevators, safety treads, roof ventilators, iron work, stone foundations, steam heating, electric lighting, rolled steel skylights (plumbing, heating and electric work separate bids). Architect taking bids, due February 2nd. F. L. Hoover & Son, 1023 Cherry street; Cramp & Co., Denckla Building; John R. Wiggins & Co., Otis Building; H. E. Baton, 1713 Sansom street; Thos. Reilly, 1616 Thompson street; Jacob Myers & Sons, Witherspoon Building, Philadelphia, and H. P. Wolfe & Co., Bryn Mawr, Pa., are figuring.

Residence, Allentown, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Earl P. Kester, Allentown, Pa. Hollow tile and stucco, 2½ stories, 26x40 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work, plumbing. Owner will be ready for bids in one week.

Bungalow, Drexel Hill, Pa. Architect, private plans. Owner, S. E. Kane, Clifton Heights, Pa. Stone and frame, 1½ stories, 30x42 feet, shingle roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work, millwork. Delaware County Const. Co., Clifton Heights, Pa., are taking sub-bids.

Sub-Stations, Marcus Hook and Chester, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Sun Oil Co., Finance Building, Philadelphia. Brick and hollow tile and stucco, 1 story, 14x18 feet, composition roof, cement floors, electric lighting, plumbing, plate glass. Architect taking bids. Delaware County Const. Co., Clifton Heights, Pa., are figuring.

Residence and Garage, Tyrone, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Richard Beaston, Tyrone, Pa. Plaster and stone, 2½ stories, 50x46 feet. Garage, 1 story, 28x32 feet, slate roof, oak and cement floors, metal lath, metal weatherstrip, waterproofing, iron work, marble work, stone foundations (heating and electric work reserved). Architects taking bids. Wm. R. Dougherty, 1610 Sansom street, Philadelphia, is figuring.

Seminary Building (alts. and add.), Overbrook, Pa. Architect, Paul A. Monaghan, Bailey Building, Philadelphia. Owners, St. Charles Borromeo Seminary, Overbrook, Pa. Stone, interior alterations, steam heating, electric lighting, composition and maple floors, kitchen equipment, tile and marble work, refrigeration plant, plumbing. Architect taking bids, due January 30th. Frank G. Stewart, 1619 Sansom street, and Joseph Johnston, 1721 Ludlow street, are figuring.

Hospital, Chester, Pa. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Chester Hospital, Chester, Pa. Brick, 3 stories, 37x209 feet, tile and marble work, steam heating, reinforced concrete floors. Plans in progress. Architects will be ready for bids in about two weeks.

Residence and Garage, Melrose Park, Pa. Architect, Wm. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner's name withheld. Hollow tile and stucco, 2½ stories, 24x40 feet, 1 story, 18x22 feet, slate roof, hardwood floors, cement work, stone foundations, hot water heating, electric lighting, tile work. Plans in progress. Architect will be ready for bids in three weeks.

Store Building (alts. and add.), Scranton, Pa. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owners, Schulte Cigar Co., 386 Broadway, New York City. Brick and steel, 2 stories, 25x35 feet, slag roof, pine floors, stone foundations, steam heat, electric lighting, tile work, iron work. Architect has received bids.

Rectory, Willow Grove, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. David's R. C. Church, care of Rev. Edw. J. Curran, Willow Grove, Pa. Stone, 3½ stories, 60x40 feet, slate or shingle roof, pine floors, vapor heat, electric light, tile work, iron and concrete work. Architect taking bids, due January 28th. E. J. Hedden, Finance Building; M. Melody & Son, 132 Race street; Conneen Const. Co., 10 South Eighteenth street; Thos. J. Carberry, Heed Building; Anthony Horan and John W. Hohlefelder, Jenkintown, Pa., and Speet & Sperry, Heed Building, are figuring.

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Church and Parish Hall, Twenty-third and Edgewood avenue, Chester, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, First Presbyterian Church, care of Mr. W. T. Galey, chairman, Chester, Pa. Brick, 1 story and basement, 50x90 feet, 45x75 feet, stone foundation, slate roof, maple floors, vacuum steam heat, electric light, tile and marble work. Sketches in progress.

Storehouse (2 parts), Rutherford, Pa., $20,000. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Concrete, brick and steel, 77x40 feet, 39x40 feet, asbestos asphalt roof, concrete floors, rolled steel sash, fire doors, iron work. Owners taking bids, due January 26th. Robert E. Lamb Co., 843 North Nineteenth street; H. E. Baton, 1713 Sansom street; F. W. Van Loon, Denckla Building; A. I. Carhart, Penfield Building, and F. A. Havens Co., 845 North Nineteenth street, are figuring.

Coal Trestle, Elm street and Stony Creek, Norristown, Pa., $15,000. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Steel, 144 feet long, concrete foundations, concrete work, carpentry and iron work. Owners taking bids, due January 26th. Robert E. Lamb Co., 843 North Nineteenth street, additional bidders.

Residence and Garage, Merion, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, J. S. Wilford, Merion, Pa. Stone, 2½ stories, 29x80 feet, and 2 stories, 23x26 feet, slate roof, oak and cement floors, stone foundations, vapor heating, electric lighting, tile work. Architects will be ready for bids in two weeks.

PENNSYLVANIA
Contracts Awarded

Bungalows (20), Elkins Park Manor, Pa. Architect, private plans. Owner's name withheld. Frame and stucco, 1½ stories, 30x40 feet, shingle roof, oak floors, metal lath, stone foundations, hot water heating, electric lighting, tile work. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

Nurses' Home, Hazelton, Pa. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, State Hospital, Hazelton, Pa. Brick and stone, 3 stories, 95x31x10 feet, cement floors, stone foundations, tile and marble work, structural steel. Contract awarded to John Eroh, Hazelton, Pa.

Lodge, Ninth and Welsh streets, Chester, Pa., $100,000. Arcitect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, Knights of Columbus, care of Thomas Feeley, care of architect. Stone, brick and terra cotta, 3 stories, 60x60 feet, stone foundations, tile roof, hardwood floors, electric light, tile, marble and terrazzo work, elevators, roof ventilators. Contract awarded to Ward Building Co., Crozer Building, Chester, Pa.

Stores and Apartment (alts. and add.), 531-33 Market street, Chester, Pa. Arcritect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, Cochrane Estate, care of architect. Brick, 3 stories, 32x60 feet, slag roof, hardwood floors, steam heat, electric light. Contract awarded to Ward Building Co., Crozer Building, Chester, Pa.

Residence (alts.), and Laundry and Servants' Quarters, Washington's Crossings, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, E. B. Malone, on premises. Frame, 2 stories, 20x30 feet, slate roof, cement and pine floors, vapor heating, electric lighting, new dormer and dormer windows to residence. Contract awarded to E. H. Ewald, Morrisville, Pa..

NEW JERSEY
Construction News

Residence, Glen Lake, Pitman Borough, N. J. Architect, Wm. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Mrs. George Colby, 565 Washington street, Camden, N. J. Frame, 2½ stories, 40x50 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work, oak stairs, plumbing, cement work. Owners ready for bids.

School, Collingswood, N. J. Architect, Frederick J. Schwarz, Paterson, N. J. Owners, St. John's R. C. Church, care of Rev. John J. O'Farrell, on premises. Stone, 2½ stories, 50x80 feet, slate roof, stone foundations, pine floors, metal lath, tile work (heating reserved), iron work. Architect taking bids, due January 25th. John M. Yardley, 1716 Sansom street; Wills-Egelhoff Co., 101 Park avenue, New York City; Stewart Willey Co., 1123 Broadway, New York City; P. T. Cox Cont. Co., 154 Nassau street, New York; George F. Pawling Co., 1432 South Penn Square; Edw. Fay & Son, 2 South Mole street, Philadelphia, and George W. Shaner & Son, Palmyra, N. J., are figuring.

Factory (alts. and add.), 19 Parker avenue, Trenton, N. J. Architect, Charles H. Weiss, Trenton, N. J. Owner, H. R. Mallinson & Co., Trenton, N. J. Carpentry work, brick work and millwork, 3 stories, plumbing, safety treads, maple floors. Architect taking bids, due as soon as possible. F. W. Van Loon, Denckla Building, Philadelphia, is figuring.

School, Glassboro, N. J., $800,000. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owner, State of New Jersey, Board of Education, care of architect. Brick and terra cotta, 3½ stories, 304x122 feet, stone foundations, slate roof, reinforced concrete floors, electric lighting, tile, marble and terrazzo work, hollow metal skylights, elevator, roof ventilators. Plans nearly completed. Archi-

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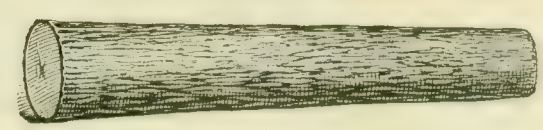
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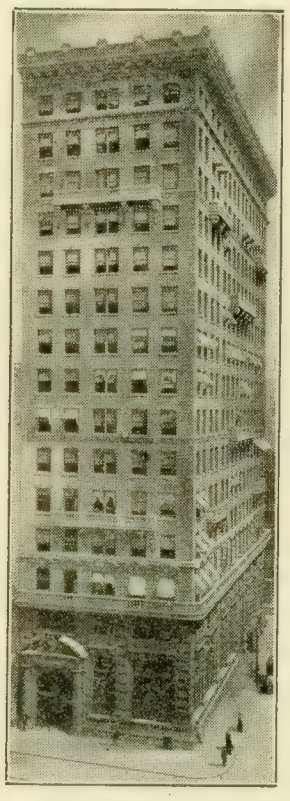
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tect will be ready for bids about February 1st.

Storehouse, Vineland, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, Home for Feeble Minded Women, care of Dr. Madeline Howell, on premises. Brick, 1 story and basement, 81x49 feet, concrete foundations, slate roof, electric lighting, cold storage plant, reinforced concrete stairs. Plans about completed. Architect ready for bids.

Store (alts.), 118 North Montgomery avenue, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Mr. Frank Stone, on premises. Plate glass, tile work, electric lighting, general interior alterations. Architects have received bids.

Manufacturing Building, North Bergen, N. J. Architects, Lockwood, Greene & Co., 101 Park avenue, New York City. Owners, H. R. Mallinson & Co., New York City. Concrete, steel and brick, 4 stories, 117x140 feet, slag roof, cement and maple floors, hollow tile, metal lath. safety treads, stone foundattions, kalamein sash, fire and kalamein doors, fire escapes, iron work (electric lighting and heating reserved). Architects taking bids. Warren-Moore Co., Colonial Trust Building, Philadelphia, is figuring.

Dye House and Office, Fair street, Trenton, N. J. (alts.), $35,000. Architect, private plans. Owners, Princeton Worsted Mills, 115 Fair street, Trenton, N. J. Brick, 2 stories, slag roof, general interior alterations. Contract awarded to F. D. Priory, 196 Pennington st., Trenton, N. J.

Automobile Building (alts. and add.), Trenton, N. J. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Mercer Auto Co., Trenton, N. J. Brick, stone and concrete, second floor to office building, 40x73 feet. Paint Shop, 1 story, 60x401 feet. Machine Shop, alterations, concrete foundation, tile work, steel wall sash, rolled steel skylights, fire doors, iron work, roof ventilators, cement and maple floors, asbestos asphalt roof. Architects taking bids, due January 26th at 10 A. M. H. John Homan Co., 34 S. Seventeenth street; Wm. R. Dougherty, 1610 Sansom street; Ketcham & McQuade, 1029 Brown street; H. E. Baten, 1713 Sansom st.; F. A. Havens & Co., 845 North Nineteenth street; National Eng. Corp., 1205 Real Estate Trust Building, Philadelphia; Foundation Co., Woolworth Building, New York City; I. Harper Clayton, Ross & Whelan, W. J. Morris, and Jas. H. Morris & Co., all of Trenton, N. J., are figuring.

DELAWARE
Construction News

Apartment House, Delaware avenue, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner's name withheld. Brick, 3 stories, 30x70 feet, stone foundations, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Sketches in progress.

Service Station, Penn and Union streets, Wilmington, Del. Architect, E. C. May, Du Pont Building, Wilmington, Del. Owner's name withheld. Hollow tile, terra cotta and concrete, 2½ stories, 32x32 feet, slate roof, concrete floors, hot water heat, electric light. Architect will be ready for bids February 1st.

Y. M. C. A. Building, Ninth and King sts., Wilmington, Del. Architect, E. C. May, Du Pont Building, Wilmington, Del. Owners, Y. M. C. A., care of architect. Brick, 5 stories, 87x140 feet, stone foundations, slag roof, hardwood floors, electric light, tile, marble and terrazzo work, rolled steel sash, fire doors and escapes, hollow tile, elevators, roof ventilators. Architect will be ready for bids February 1st.

Service Station, Tenth and Union streets, Wilmington, Del. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner's name withheld. Concrete, steel and ornamental terra cotta, 2 stories, 131x250 feet, slag roof, cement floors, hollow tile, metal lath, 1 elevator, steam heating, electric lighting, rolled steel sash, hollow metal sash, fire doors. Architect will be ready for bids on January 23rd.

Miscellaneous Construction News

Bank and Office Building, Waterbury, Conn. Architect, Cass Gilbert, 244 Madison avenue, New York City. Owners, Waterbury National Bank, Waterbury, Conn. Brick, stone, terra cotta and steel, 4 stories, 65x89 feet, slag roof, parquetry and cement floors, metal lath, elevators, safety treads, stone foundations, steam heat, electric light, tile and terrazzo and marble work, rolled steel sash, kalamein doors, bank fixtures, iron stairs and iron work, waterproofing. Architect taking bids, due January 31st. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

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Proposals

INVITATION FOR PROPOSALS.

Proposals for Construction and Alteration of Building, Picatinny Arsenal, Dover, N. J., January 12th, 1920. Sealed proposals will be received here until 1 P. M., January 27th, 1920, and then opened for constructing and finishing extension and alteration to Building 117. Further information upon application to Constructing Officer.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C.—January 16, 1920.—Sealed Proposals will be opened in this office at 3 P. M. February 16, 1920, for remodeling the United States Post Office and Court House building at Pittsburgh, Pa. Drawings and specifications may be obtained from the custodian of the building, Pittsburgh, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

BASE WAGES ON PRODUCTION

Lessened Output From Labor and Increased Pay Cannot Long Continue

By A. J. McKENZIE.
Vice-President, McKenzie Construction Company.

Belief that the time has come when some effective action should be taken to stop the general tendency toward the curtailment of output, is responsible for the formation of the Open Shop Association of San Antonio, which was organized a short time ago. It includes all employers of labor—contractors, manufacturers, hotel keepers, and merchants.

Since the pre-war days, the local wage scales have been greatly advanced, just as in all other sections. With higher pay came less production in many instances, and when still greater demands were made by the unions in some of the building trades, it was felt that a decisive stand should be taken to protect the public against an unjustified increase in wages. Accordingly, for the first time in the history of the city, the contractors of San Antonio organized an association, which after a thorough study of the matter adopted a resolution stating that "there is no just reason for an increase in carpenters' wages at the present time.

Contractors were not opposed to paying wages higher than those called for by the old scale—that was shown by the fact that even then many first-class carpenters were receiving more pay because they earned it. But they were unwilling to grant an increase affecting all carpenters alike, irrespective of their ability and output. The general decrease in production within the last two or three years was brought out in the resolution referred to above, in these words:

"The average daily records of all the general contractors show that the output of the average carpenter at $6.00 a day is approximately 50 per cent. less than his output when he was receiving but $4.00 a day; in other words, the average carpenter in July, 1917, at $4.00 a day, actually placed from 800 to 1,000 board feet of lumber a day, while at the present time at $6.00 a day the average daily output per man is only from 400 to 750 board feet."

Later, the bricklayers and plasterers were called out in an attempt to force the contractors to sign an agreement to employ union men exclusively, but work was soon resumed on an open-shop basis. As a result, on one job the production was increased about 30 per cent. while the payroll was lessened.

In order to cope with the labor situation in an adequate manner an open-shop association was formed, in which all class of employers united. Already the movement has spread to several other Texas cities, and if this propaganda should be circulated throughout the entire country, I am confident the present unrest would soon be over.—*Bulletin of Associated General Contractors.*

"WHAT FOOLS THESE MORTALS BE."

An able honest man, if poor, is a damphool!
An able dishonest man, if "smart," is sometimes rich;
But while an able, honest man, if smart, should be rich, an
Able crook, however rich, is nothing but a damphool! WILLIS POLK.

When business is slow for some reason or other,—is the very time to advertise. When your car gets stuck on a muddy bit of road, you don't go and sit on the bank, —you push, to put it across. Do the same with your business.

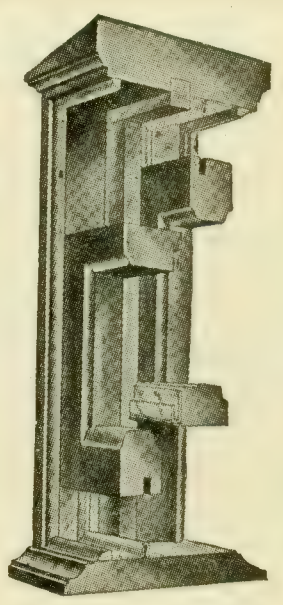
The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

"Facts are stubborn things." Advertise only the truth about your product and watch the result.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.



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You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

(Continued from Page 47.)

speeding up of work, especial care should be taken to prevent carelessness in chimney construction.

Along the same lines the National Fire Protective Association is pushing a vigorous campaign, emphasizing the present need of dwellings and the extreme necessity of protecting from the fire the homes we already have. It advocates care about matches, smoking, lighting and heating apparatus and gasolene, and urges a clearing out of rubbish, inspection of flues and cleaning of chimneys that sparks may not fall on combustible roofs.

* * *

PHILADELPHIA is not the only city which had a record building year in 1919. Nor is it alone in its crying need for homes—not of the palatial sort, but of the kind occupied by families living on a moderate salary or wage.

"Official records," says the *Chicago Herald and Examiner*, show more than 6,600 building permits in Chicago during 1919. The outlay involved is above $100,000,000. No previous year, except 1911 and 1916, reached these figures.

"If we deduct the months of the building strike last year's building record was the banner one in the city's history. The Fall months, after the big strike ended, were especially active, and 1920 promises to be the greatest building year of them all.

"It is like a welcome rain spell after a drought. The war paralyzed building operations, and the war no sooner ended than the building strike began. It will take some years of building activities to make up for lost time.

"Some citizens seem to forget that Chicago keeps on growing with a normal average of about 60,000 a year net addition to population. These people must live somewhere. Unless building keeps pace with population growth rentals are based on scarcity rather than intrinsic values.

"It is all right to take out building permits for new mammothe hotels, office buildings and factories. Here also the supply has run behind the demands. But Chicago's chief building shortage, as 1920 opens, is individual homes. Scores of new vast apartment buildings will only partially supply for places to live. There should be at least 10,000 new building permits this year for individual homes.

"Building material is high, and labor is high. But in the economic sky there is no immediate forecast for a reduction. Those who build now will build on a rising rather than a falling real estate market.

"In modern home building there is less building material and more art than there used to be. Bungalows are the fashion and they cost less than old style homes. Apartment life has trained most families to an economy of space.

"The main thing is to multiply individual homes, big or little, elaborate or cheap. The investment is sound. The independence of landlords is allurring. The added dignity of home owning is good for the average citizen."

FACTORIES AND THEIR FIRE PROTECTION

By Franklin W. Wentworth.

Architects and builders are slowly entering into a new phase of their accountability. Just as the architect, whose primary impulse is that of the artist, has been compelled in the interest of his clients largely to master the technique of the builder, so both the architect and the builder are now being called upon to protect their clients in the matter of the fire hazard. The enormous aggregate of the American fire waste, which contrasts us so unfavorably with European prudence, is beginning to cripple and impoverish us as the natural resources of the country, once believed to be inexhaustible, are ceasing to respond to the demands of our habitual extravagance. The common notion that the insurance companies pay the cost of fires is gradually giving way to an intelligent understanding of the fact that they are merely the collectors and distributors of the fire tax. They must recover from the public the sums they pay out in losses, plus the cost of conducting their business and a reasonable interest upon their capital. If they could not do this there would be no business of underwriting, and sufferers from fire would be relieved only by direct assessment upon their more fortunate neighbors. It is not certain that a year or two of such direct assessment would not be an admirable educative experiment. At present the cost of the fire tax is merged with everything we eat and drink and wear, and the masses of the people are ignorant of the fact that they bear it.

This is no longer true of the manufacturing classes, however. The manufacturer now realizes that he pays a tax directly related in amount to the character of the building he occupies and the nature of his manufacturing processes; and that in addition to this he pays for the carelessness of all his neighbors. If he cannot shift this burden by passing it along to the users of his product, merged quietly in the selling price of his goods, then he must pay it out of his profits, which cripples him in the competitive struggle.

The manufacturer now clearly sees this and expects the architects and builders he may employ to see it also. If, after his factory is completed, he finds that points respecting the fire hazard have been ignored and that in consequence of some structural qualification, now too late to alter, he is doomed to pay a fire tax which forethought, with perhaps no additional expense, might have avoided, he may be considerably disturbed by it.

Oftentimes structural defects (not mechanical, but from the standpoint of fire hazard) or the unwise location of hazardous factory processes cannot be overcome by the addition of special fire protection after the completion of the building. In such cases these defects operate as a fixed charge upon the property and contents as long as the building stands.

Fire protection engineering is coming to be a profession by itself, but, after all, its chief distinguishing quality is common sense. The principal demand is that the architect and builder should have a consciousness of the fire hazard, for up to this time very few of them have thought much about it. With the thought of the importance of this item in their minds no grievous blundering is possible, and technical advice on specific features can generally be had without charge from fire protection engineers in the service of the various underwriters' inspection departments having jurisdiction.

It is the intent of this article to set out certain fundamental principles which may serve as a basis of approach for those who have as yet given no thought to the subject.

Experience in fire protection engineering suggests three points to be kept in mind in planning a factory:

1. There should be as little combustible material as possible used in its construction and equipment.

2. Each floor should be absolutely cut

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off from every other floor and each section from every other section, so that fire may not communicate.

3. Every part of the factory should be equipped with fire extinguishing apparatus.

It is obvious that a factory of reinforced concrete will present certain advantages respecting the fire hazard over the slow-burning or "mill construction type; although the latter is preferred by many manufacturers as presenting more convenient surfaces for the attachment of pulleys, shafting and machinery.

Slow-burning construction is not undesirable if properly safeguarded and protected.

The advantages of the use of reinforced concrete appear when we consider that with such construction every floor may, by avoidance of vertical openings through it, be made practically a fire wall. The floors being incombustible a fire in any story may be ordinarily confined to that story. In the old type of factory, having open elevator shafts and belt openings from floor to floor, fire quickly ran from story to story, and was soon beyond the control of the fireman. It is essential that in all factories, of whatever type of construction, stairs, elevator and belts be placed in fireproof enclosures with openings to each floor protected by fire doors or shutters. If in addition to the omission of all vertical openings provision be made to drain the floors through scuppers set into the outside walls, the possibility of water damage to goods or materials on floors below is much lessened. The standard form of brick or concrete stair and elevator tower may also serve this purpose. If the building as a whole is of fire-resistive material it naturally presents less fuel upon which a fire may feed, and there is therefore less chance of a serious fire if for any reason the extinguishing agents are temporarily disabled. It must be remembered, however, that buildings are often destroyed by the burning of their combustible contents, and in all types of mills and factories the floor areas should be kept down to the minimum limit consonant with convenience and economic operation of the plant. These areas should be divided by fire walls, all openings in which should be protected by standard self-closing fire doors. These precautions minimize the danger of a rapid spread of fire horizontally. All mill-constructed buildings, if or large area, should be divided into sections by special fire walls extending above the roof and out beyond the walls of either side.

Whether exposed to possible fire from adjacent buildings or not, there should be no wooden frames or trim about the windows. Window frames should be of metal fitted with sashes of wired glass, for under strong draught fire frequently creeps up outside from story to story by means of the windows, consuming the wood trim and igniting contents of the building on each floor. Metal window frames are now so constructed that they will stand very considerable exposure to fire without buckling or releasing the glass, and their liberal use in all varieties of buildings is greatly to be desired. The sashes may be operated as conveniently as those of any other window.

It will be observed that all the suggestions made for fire walls, stair and elevator enclosures and window openings are as applicable to buildings of mill or slow-burning construction as to those of concrete. They should be followed, as far as possible, in all factory construction and in mercantile buildings as well.

In certain buildings of mill construction, carrying stocks of excessive weight, it has been a common practice to make the main beams of two pieces of timber side by side, bolted together. An air space between the pieces was formerly advocated in behalf of better seasoning and possible avoidance of dry rot. Experience has demonstrated, however, that this space not only reduces the resistance of the beams to fire by offering almost double the wooden surface to its attack, but that in case of fire getting started the space between the beams holds it for a long time and prevents its extinction.

It is obvious that neither automatic sprinklers nor ordinary hose-streams can successfully reach fire lurking in such narrow alleys. Such construction should be avoided.

Mill or slow-burning onstruction presents its own inherent problems. Enough wood must be used to insure strength and stability, but superfluous wood should be avoided. It matters very much as to just how the quantity of timber used may be disposed.

The guiding thought of the architect should be to present to fire attack the least practical amount of wood surface.

For example, a mill planned with heavy beams 8 to 11 feet on centers of continuous spans from wall to post or post to post of from 20 to 25 feet is infinitely more desirable than one of miscalled mill construction having longitudinal girders resting upon posts on which girders are placed four feet or less on centers. The latter construction not only adds to the exposed wood surfaces which may be attacked by fire, but the disposal of the timbers obstructs the action of sprinklers and prevents the sweeping of hose streams from one side of the mill to the other.

No architect with the consciousness of the fire hazard will ever plan for either manufacturing or mercantile occupancy those undesirable fire boxes known as "light-joisted" buildings. Light joists or rafters two or three inches in width, spaced from ten to sixteen inches on centers, ignite and burn like kindling. Their numerous corners furnish projections for easy ignition. The menace of such construction may be aggravated by sheathing under the joists. This provides a series of wooden cells, pervaded with concealed spaces in which fire may riot and lodge and dodge extinguishment until the floor or roof is burned through. By the same token partitions of light wood should be avoided.—*Building Industry.*

* * *

Fire insurance rates in Kansas City, Mo., advanced between 20 and 25 per cent. according to the *Kansas City Star* which quotes the Missouri Inspection Bureau on the subject.

As one reason for the increased rates, attention was called to the fact the cost of repairing partly destroyed buildings had been advanced.

The new rates apply principally to these classes of insurance property:

Brick or stone dwellings, from 25 to 25 per cent.

Ordinary brick buildings, 17½ per cent.

Household goods, 20 to 25 per cent.

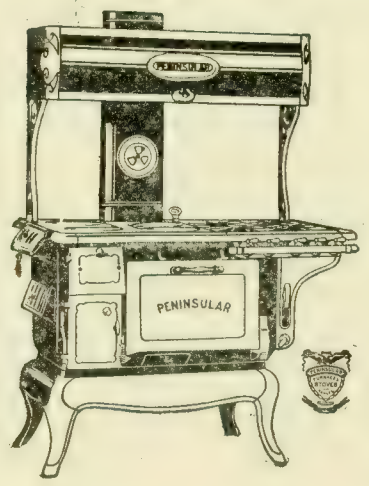
Officials said there would be no increase in the rate on fireproof buildings or where sprinkler systems are installed. The fire hazard in Kansas City has been reduced in the last year due to the betterment in fire fighting equipment, it was said. Inspectors, however, deplored the lack of an automatic fire alarm system found in most cities. Missouri, it was pointed out, is one of the few States without a fire marshal.

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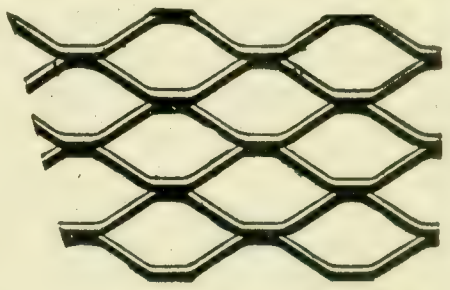
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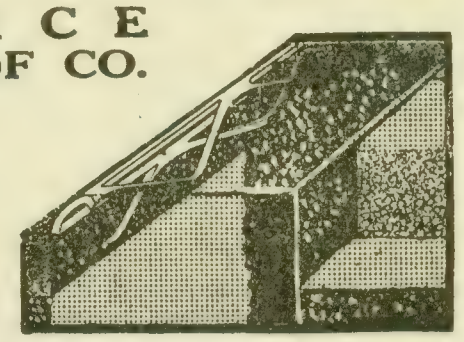
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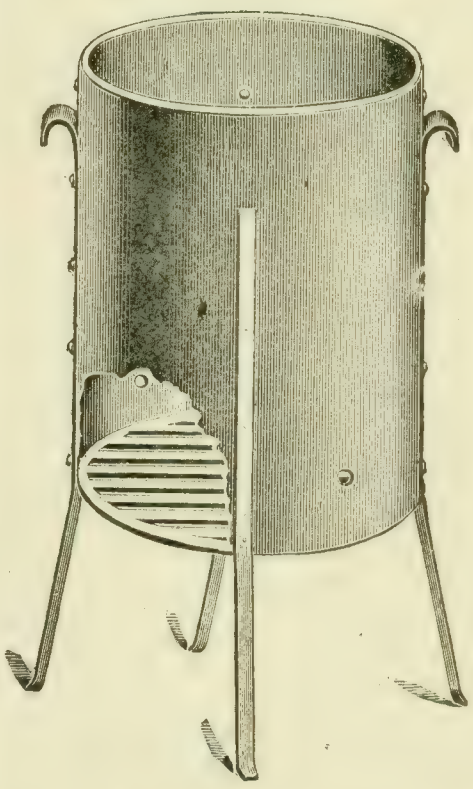
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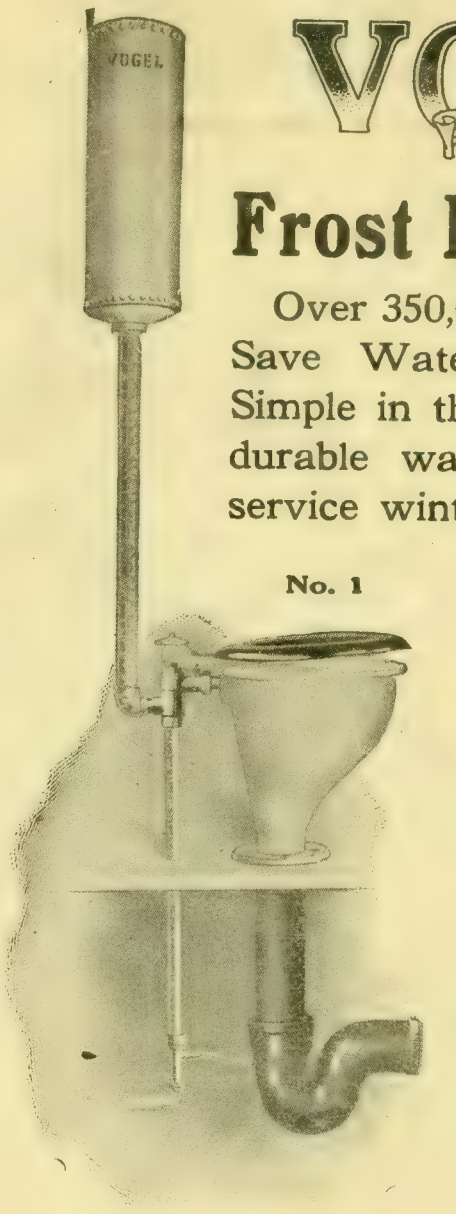
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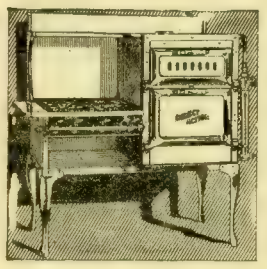
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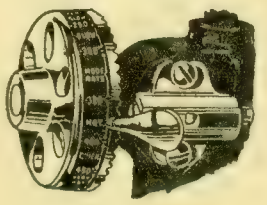
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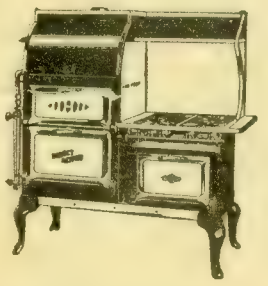
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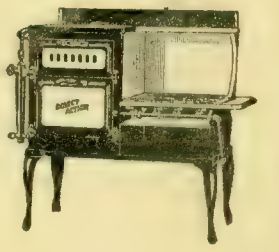
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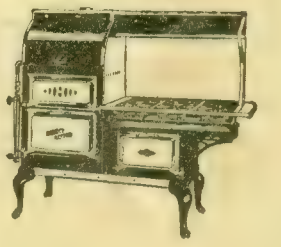


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Entered at the Philadelphia Post Office as Second-Class Matter

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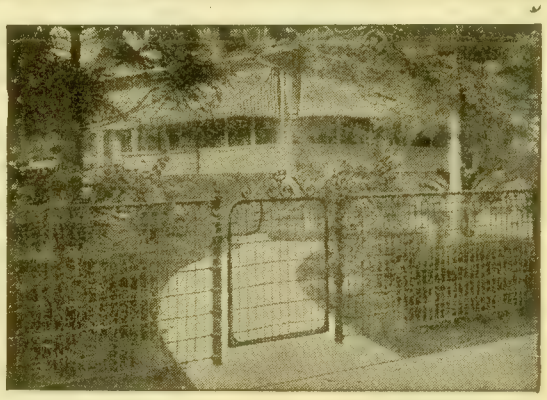
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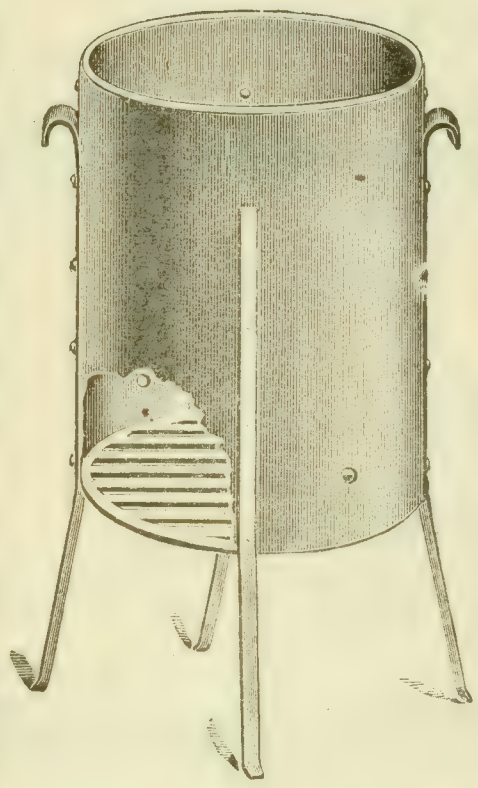
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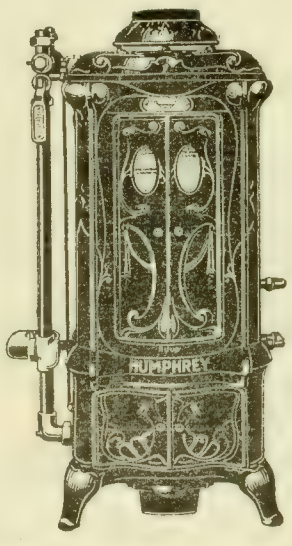
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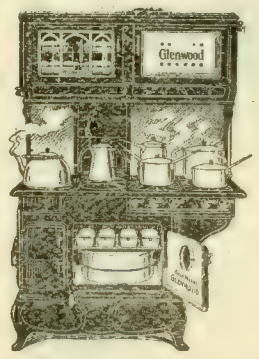
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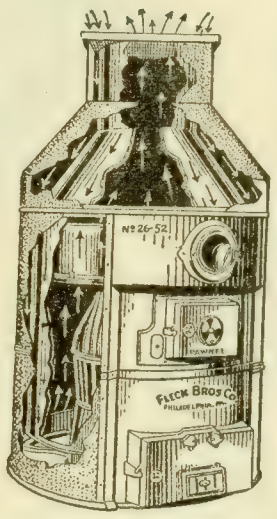


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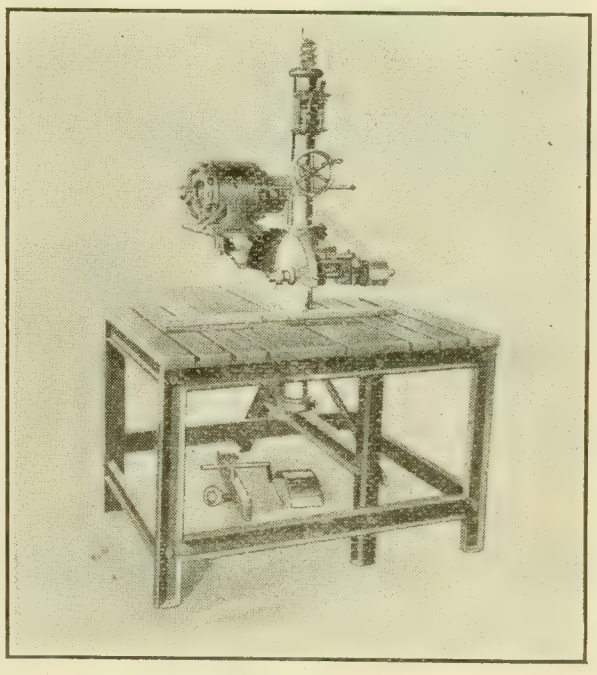
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 4

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As The Editor Sees It

SO much has been said during the last year about the great part which the construction industry must play in supplying the needs of the country for new buildings, that the subject at first thought would seem well nigh exhausted. We are told, however, that approximately 1,000,000 homes are needed in the United States *now,* and the problems relating to supplying this demand are still unsolved.

One thing is certain—co-operation is of the utmost importance. In a recent issue of the GUIDE we suggested "closer contact between all the organizations and agencies entering into the planning and costructing of buildings," in order to promote "greater opportunity for the realization of efficient service in the great building projects which are upon us."

Along this same line of thought comes the message delivered by Charles Wm. Bernhardt, President of the National Association of Builders' Exchanges, at the annual convention held recently in Indianapolis. In enumerating the difficulties ecountered by his administration, Mr. Bernhardt continued:

"Your administration found new conditions facing them. The former normal conditions had passed away and what had formerly been considered fair prices for the various times entering into the construction of our buildings were not even accepted for consideration. All quotations were made subject to immediate acceptance, deliveries to be made when possible. If shipments were promised within a given time, strikes and railway delays made it impossible in nearly every instance to carry out these promises.

Labor agreements were worse than useless, for they only served to confuse the mind, as an agreement was scarcely entered into before it was broken. In many instances the organizations denied any participation in these violations, claiming individual action on the part of its members.

In many instances employers have permitted themselves to be misled by their employes who have claimed they had offers of higher wages, either from other employers or elsewhere. In many cases this scheme was successful, as each employer felt that it was important that his work proceed without interruption, overlooking the fact that the increase in the price paid for labor did not increase the supply. Better results would have been obtained had the employers met occasionally to discuss the conditions that confronted them.

I have found that in several of our member exchanges the custom of holding weekly meetings has been established. This custom affords an excellent opportunity for the exchange of ideas and the rectifying of the evils that constantly creep into our business.

Unsettled conditions have made it impossible to complete operations undertaken with any degree of efficiency as was formerly in effect. This has not only been unsatisfactory to the owner, but it keeps the capital invested by those interested in its erection for a much longer period.

One of the most vital questions that has occupied the time of your board during the year, and which has had a great deal to do with the present dissatisfaction, is the question of jurisdictional disputes.

The National Institute of Architects, through Mr. E. J. Russell, its chairman, undertook to bring about a conference for the purpose of inaugurating a movement which had for its purpose the creation of a national board of jurisdictional awards, to which all questions of trade jurisdiction should be submitted for action and decision. In accordance with the desire expressed by the convention in Milwaukee, after the request for a representative from this organization had been made by Mr. E. J. Russell of the American Institute of Architects, Mr. E. W. Raugh was appointed to represent this association.

Two conferences were held, one in Cleveland and one in Indianapolis. At the latter meeting Mr. Reaugh was assisted by Mr. C. Pierson. Rules were formulated at these conferences for the guidance and regulation of the proposed national board of jurisdictional award, which was to be composed of one repre-

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sentative each from the American Society of Engineers, the Associated General Contractors, the National Association of Builders' Exchanges, one from the National Association of Building Trades Employers, then in process of formation, and three representatives from organized labor. These proposed rules were submitted to the Board of Control for consideration. The Board of Control, after making some revisions, felt that it was a matter that should be acted on by the members. Therefore, it was decided to submit it to a referendum vote. The result of this vote was submitted at the board meeting held in Baltimore. After canvassing the vote the board decided that it was not a fair expression of sentiment and decided to refer the entire matter to the convention. As the matter will be presetned to you in the form of a report by Mr. Reaugh, I leave the matter for your consideration at that time, without comment other than to express the hope that some solution will be found that will relieve the industry of this problem and the intolerable situation it creates.

The committee created at the last convention for the purpose of forming a national Association of Building Trades Employers has done most excellent, as is evidenced by the organization itself. I do wish to call attention, however, to its main features and possibilities. In the development of this new organization due consideration has been given to the varied conditions with which our people come in contact in their respective localities. While in some sections agreements are entered into between employers' associations and the building trades councils, there are also large areas where open shop conditions prevail. The National Association of Builders' Exchanges has ever recognized the right of home rule and has ever stood ready to protect its member associations in the preservation of the policy they choose to live and work by. In the National Association of Building Trades Employers an opportunity is offered to determine the possibility of acting for and in behalf of all employers of labor in the building industry, irrespective of the policy pursued, in the employment of their labor. This organization must choose for itself broad, patriotic principles if they hope to succeed, for by example and precept it must teach labor to broaden its vision, create for itself freedom from petty jealousies and class prejudices.

It is just as much the interest of labor that the cost of living be reduced, that buildings be more economically built, and that the various items that enter into a ...ng be more efficiently assembled, as ... of the employers. From this en... ment of co-operation between employer and employee, each striving to economize in the cost of production by a more efficient execution of the enterprise in which they are engaged, must come the encouragement to those who have capital to invest, and from that investment the assurance of the prosperity of the Nation. We are living in a new era. New conditions have arisen which require new lines of thought and more active endeavor, to the end that all of our people may be benefited. This new organization should act in harmony with our older experience and unite itself with the National Association, so that the greatest benefit may be derived from concerted action. This can be done by affiliation, with representation on the Board of Control. In fact, I so strongly favor such a movement that I feel that all National organizations should unite under one head, preserving their organization intact, but having representation on the Board so that all National questions may be handled jointly for a common interest. This plan is perfectly feasible and can be worked out by a strong committee appointed for this purpose. Such an organization will not only command the respect and confidence of the entire public, but would discontinue the present overlapping of effort that is now so evident. I commend this thought to your earnest and careful consideration.

This subject, as in years past, has been given a great deal of thought and attention. In the death of Mr. Frank Miles Day of the American Institute of Architects, the architects not only lost an able member, but this association lost a valued friend. Mr. Day had given this subject a great deal of time and thought, which proved a very valuable assistance in the solution of this problem.

The American Institute of Architects has appointed Mr. William Stanley Parker of Boston to fill this vacancy.

Mr. Parker has submitted, through Mr. King, our counsel, his version of the "Cost-Plus" form of contract. This, together with the criticisms of Mr. King, have been forwarded to Mr. Reaugh, chairman of this committee, who will make a detailed report on this subject.

This is a very important subject and the work accomplished in the perfection of these documents deserves better support than it has received in the past. If they were put more generally into practice, the membership would receive a lasting benefit. I can only urge the importance of a more extensive use of these documents.

Your Legislative Committee has been actvie throughout the entire year. They have favored all legislation that has been in the interest of the building industry, and opposed all matters that have been unfavorable.

It occurs to me that this organization should be more keenly alive to its possibilities in this respect. We have, however, been limited in our activity by a lack of funds, which forces us at all times to depend on those who are willing to give their time to this work without hope of reward.

I have always felt that we should not content ourselves with merely passing our opinion on measures as they are introduced. But we should express our disapproval of measures now on our statute books that are not for the best interests of the public generally.

The American Federation of Labor is always on the alert, injecting wherever possible its ideas and wishes.

Eternal vigilance is the price of liberty. If we wish to retain industrial freedom, we must become actively interested in the affairs of our states and nation.

This is the Ninth Annual Convention. Surely in this time you have been able to determine in your own minds the possibilities of an organization that has for its purpose the uniting of all interests in the building industry.

* * *

PAYMENT FOR ESTIMATING.

Every contractor is entitled to receive adequate payment for his work or services. None can long survive in business or make a fair living profit out of it, if they do not include their overhead or operating expenses in their bills or charges for work and in their estimates or bids for a job.

Estimating the cost of a piece of work, or preparing a bid for the construction of a building, requires more or less labor, time and outlay of money, to say nothing of the application of the estimator's or bidder's technical or practical knowledge, acquired perhaps through years of study and experience.

"Estimates cheerfully furnished" has for years been a pitiable cry for business of some contractors. Of course, contractors should furnish estimates cheerfully and conscientiously, and they should also be able to do so competently, but in any case they should be entitled to and should charge for their services if asked or permitted to submit an estimate.

Every job figured upon should bear the cost of its own estimating expenses. These should not be carried forward to some future, prospective, uncertain job. No contractor who, let us say, has bid unsuccessfully on a dozen jobs, can hope to be reimbursed for his entire overhead expense for these jobs by waiting to unload the same on some other owner whose job he may possibly, eventually land. If he so expects, he'll either never get that

(Continued on Page 82.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Chestnut Hill, Philadelphia. Architect, John Graham, Jr., 130 South Fifteenth street, Philadelphia. Owner, John Graham, Drexel Bldg., Philadelphia. Hollow tile and plaster, 2½ stories, 35x32 ft., shingle roof, oak and pine floors, hollow tile, stone foundation, hot water heat, electric light, tile work. Architect taking bids due February 2. Samuel Harting, 20 East Johnson street, Wm. J. Gruhler, 219 East High street, F. Elvidge & Son, 5522 Germantown avenue, are figuring.

Smoke House (add.), Thirtieth and Race strees, Philadelphia. Architect, private plans. Owners, F. G. Vogt & Co., Inc., Thirtieth and Race streets, Philadelphia. Owners taking bids. E. E. Hollenback, Inc., 1304 Brandywine street, are figuring.

Apartment House, Belfield avenue, near Wingohocking street, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, B. Bornstein, 1510 North Franklin street, Philadelphia. Stone, brick, 3 stories (18 apartments), slag roof, hardwood floor, hot water heating, electric lighting, tile and marble work. Owner will build.

Store and Dwelling (alts.), 264 South Twentieth street, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, name withheld. Brick, 3 stories, general interior and exterior alterations. Plans in progress.

Mill Building, Butler and Janney streets, Philadelphia. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owner, Belmont Packing Co., 133 North Second st., Philadelphia. Brick, 1 story, 130x119 ft., slag roof, concrete floors, rolled steel sash, hollow metal skylights, stone foundation (heating and electric work, reserved). Architect taking bids due February 2. Geo. Kessler Cont. Co., Drexel Bldg., J. M. Yardley, 1716 Sansom street, and Ketcham & McQuade, 1029 Brown street, Cramp & Co., Denckla Bldg., Hogg Construction Co., Denckla Bldg., Price Construction Co., Penn Square Bldg., A. R. Raff Construction Co., 1635 Thompson street, Frank G. English, 1610 North Carlise street, A. L. Fretz & Son, Heed Building, are figuring.

Garage, 901-05 North Broad street, Philadelphia. Architect, H. B. Weldon, Fuller Bldg., Philadelphia. Owner, Louis J. Kolb, care H. T. Saunders, 31 South Eighteenth street, Philadelphia. Brick, 2 stories, 50x160 ft., slag roof, cement floors, stone foundation, steam heat, electric light. Plans completed. Will be ready for bids in a few days.

Residence (40), Fortieth and Walnut sts., Philadelphia. Architect, H. B. Weldon, Fuller Bldg., Philadelphia. Owners, Feldman & Son, Fiftieth and Parkside avenue, Philadelphia. Brick, 2 stories, 16x56 feet, slag roof, oak and pine floors, stone foundation, hot water heat, electric light, tile and marble work. Owners are taking sub-bids.

Building (alts. and add.), 805 North Broad street, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. General alterations and additions, 3 stories, 20x112 feet, and 25x45 feet. Plans in progress.

Residence, Wissahickon avenue and Kitchen's Lane, Germantown. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Chas. W. Potts, 111 East Cliveden street, Philadelphia. Stone, 2½ stories, 32x51 feet, wing 23x24 feet, slate roof, stone foundation, hot water heat, electric light, tile work, oak and pine floors, waterproofing, iron work. Architec taking bids due February 3. R. C. Ballinger & Co., 218 North Thirteenth street, Samuel Harting, 20 East Johnson street, J. Sims Wilson Co., 1125 Brown street, and I. A. Dunkelberger, 71 East Herman street, are figuring.

Store and Apartments (alts.), 701 North Broad street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Jacob E. Weiss, 5836 Germantown avenue, Philadelphia. Reinforcing steel, new front, flush bulks, hardwood floors, new partitions, painting, hot water heat, electric light, tile and marble work, plumbing. Architect will be ready for bids in a week.

Apartments (9), Seventeenth and Butler streets, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, 18x35 feet, slag roof. Plans in progress.

Store and Apartments (alts. and add.), Southeast corner Third and Christian streets. Architect, Herman H. Kline, 1612 South 4th street, Philadelphia. Owner, Dr. I. Rosen, on premises. Brick, 2 story addition, 12x18 feet, slag roof, mineral, hardwood and pine floors. hot water heat, combination light, tile and marble work, metal ceiling, structural iron. Architect will be ready for bids in one week.

Factory (add.), 857 East Girard avenue, Philadelphia. Architect, A. V. Gilchrist, 527 South Yewdall street, Philadelphia. Owner, Eric Jansson, on premises. Brick, steel and concrete, 2 stories, 50x58 feet, slag roof, cement and maple floors, metal lath, rolled steel sash, rolling steel doors, iron work (heating and electric work, reserved). Owners taking bids. H. E. Baton, 1713 Sansom street, F. A. Havens & Co., 845 North Nineteenth street, E. E. Hollenback, Inc., 1804 Brandywine street, and F. B. Davis, 240 North Sixteenth street, are figuring.

Warehouse, Twenty-seventh and Lombard streets, Philadelphia. Architect, private plans. Owners, Sun Co., care Mr. Mockett, Finance Bldg., Philadelphia. Concrete and brick, 2 stories, 74x104 feet, slag and cement tile roof, cement floors, metal lath, iron work, concrete foundation (heating, electric work and plumbing, reserved). Owners have received bids.

Store and Apartments (alts.), Avalon, N.J. Architects, Pollock & Rust, 1802 Chestnut street, Philadelphia. Owner, name withheld. New hot water heating, electric lighting, flush bulks. Plans in progress.

School (Elementary), Roanoke, Va. Architect. H. Courcy Richards, 1713 Sansom st., Philadelphia. Owner, Board of Education, care Clk. J. A. Page, Roanoke, Va. General remodeling and additions. Plans in progress. Architect will be ready for bids in about three weeks.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Department of Public Works, care John C. Winston, Director, Room 232, City Hall. Grading, asphalt, and vitrified block and asphalt pavements (assessment work). Owners taking bids due January 30, at noon.

Store Building (alts.), Southeast Corner Thirtieth and Market streets, $10,000. Owner, Pennsylvania Cold Storage Co., Twenty-ninth and Market streets, Philadelphia. General alterations. Owners will build.

Insurance Office (alts.), Southeast Corner Broad and Columbia avenue, $4,000. Architect, Louis Levi, Real Estate Trust Bldg., Philadelphia. Owners, Sun Life Insurance Co., Baltimore, Md. General interior alterations. Owners will build.

Store Building, Thirteenth and Arch sts., Philadelphia. Architect, J. Ethan Fieldstein, Penfield Bldg., Philadelphia. Owner, name withheld. Terra cotta and stone, 2 stories, 18x125 feet, slag roof, pine floors, steam heat, electric light, tile work. Architect will be ready for bids in one week.

Store (alts.), 833 South Second street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Bldg., Philadelphia. Owner, Harry Richman, on premises. Brick, new front, interior alterations, hardwood floors, steam heating, electric lighting. Architect will take bids in a week.

Factory, Kensington, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Bldg., Philadelphia. Owner, name withheld. Brick, 2 stories, mill construction, 54x90 feet, slag roof, steam heating, electric lighting. Ready bor bids in one week.

Store (alts.), Northwest Corner Third and Market streets. Architects, Greisler-Abrahamson Co., Lafayette Bldg., Philadelphia. Owners, Post Cigar Co., on premises. Alterations to first floor, brick work, steel and iron work, painting, glazing, marble and tile work, electric lighting, plumbing. Architect has received bids.

Club House (alts. and add.), 239 South Camac street, Philadelphia. Architect, David B. Bassett, 420 Perry Bldg., Philadelphia. Owner, Poor Richard Club, on premises. Brick, 1 story, 13x30 feet, slag roof, electric lighting, interior alterations. Architect has received revised bids.

School, Third and Lombard streets, Philadelphia. Architect, private plans. Owner, Board of Education, Eighteenth street above



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Chestnut. General alterations. Lowest bid submitted by E. C. Durrell, 1713 N. Twenty-fourth street, Philadelphia, $4,475.

School (alts. and add.), Seventh and Lehigh avenue, Philadelphia. Architect, private plans. Owner, Board of Education, Eighteenth street above Chestnut, Philadelphia. General alterations, new equipment. Lowest bidder, general contract, E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, $22,475. Plumbing, Bowman Bros., Fifth and Cumberland streets, $6,834. Electric work, Walker & Kepler, 531 Chestnut street, $5,195.

Residence, Chestnut Hill, Phila. Architects, Mellor, Meigs & Howe, 249 South Juniper street, Philadelphia. Owner C. J. McManus, Wissahickon avenue & Carpenter street. Stone, 1½ stories, 67x55 feet, shingle roof, pine floors, stone foundation, tile and marble work, metal lath, dampproofing, iron work (heating and electric work, reserved). Architects taking bids.

(Residence (alts. and add.), Thirty-ninth and Walnut streets, Philadelphia. Architects, David B. Bassett, Perry Bldg., Philadelphia. Owner, name withheld. New porches, bay windows, brick, general interior alterations, tile roof, brick and oak floors, steam heat, electric light. Plans in progress.

Store (alts and add.), 1230 Market street, Philadelphia. Architect, David B. Bassett, Perry Bldg., Philadelphia. Owners, A. H. Geuting & Co., on premises. Limestone and brick, 4 stories, new front, and general alterations and additions, steam heat, electric light. Plans in progress.

Ice Cream Building (add.), 890 N. Forty-eighth street, Philadelphia. Architects, Stuckert & Co., Crozer Bldg., Philadelphia. Owners, Scott Powell Dairies, on premises. Brick, fireproof, 1 story, 30x95 feet, slag roof, cement floor, electric lighting, elevators. Plans completed. Architect ready for sub-bids.

Storage Building (alts.), Southeast Corner Twenty-fifth and Ellsworth streets. Architects, Stuckert & Co., Crozer Bldg., Philadelphia. Owners, S. Birkenstein & Sons, 134 North Front street, Philadelphia. Brick and steel, 1 and 2 stories, 117x575 feet, cement floors, extensive alterations, painting, glazing, sprinklers, hollow metal skylights, steam heating, electric lighting, plumbing. Architect will be ready for sub-bids in a few days.

Building, 3318 North Broad street, Philadelphia. Architect, Leroy K. Rothschild, 1225 Sansom street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick and stone, 1 story and mezzanine, 25x200 feet, slag roof. Plans about completed. Architect will take bids in a few days.

Store Building (alts.), 325 Market street, Philadelphia. Architects, Magaziner & Eberhard, 60 Chestnut street, Philadelphia. Owners, Markovitz Brothers, 321 Market street, Philadelphia. Repairing roof, brickwork, plumbing, plastering, electric work. Architects have received bids.

Church (Basement), Sixty-first and Oxford streets, Philadelphia. Architects, Druckenmiller & Williams, 1527 Chestnut street, Philadelphia. Owner, Third Christian Church, care Rev. T. E. Winter, Lancaster avenue and Aspen street, Philadelphia. Brick, 111x111 feet. Plans in progress. Too early for details.

Residences (24), Cobb's Creek Blvd. and Cedar avenue, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Bldg., Philadelphia. Owner, Mike Cylinder, 521 Mifflin street, Philadelphia. Brick, 2 stories, stone front, 16x58 feet, slag roof, slate roofs, hot water heating, electric lighting, tile work. Owner will be ready for sub-bids in a few days.

Church, Greene and Logan streets, Germantown. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Francis of Assisi's Roman Catholic Church, care Rev. Jeremiah D. Nevin, Rector, on premises. Stone. Preliminary sketches being prepared. Too early for details.

Service Station, 250-252 N. Juniper street, Philadelphia. Architect, Chas. E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, W. B. McCullough, Elkins Park, Pa. Brick, 2 stories, 36x100 feet, slag roof, cement floors, steam heating, electric lighting. Architect has received bids.

Hospital, Chestnut Hill, Philadelphia. Architect, Joseph P. Sims, 1627 Sansom street, Philadelphia. Owner, Chestnut Hill Hospital, care J. A. Harris, Jr., Secretary, Franklin Bank, Philadelphia. Preliminary sketches being prepared. Too early for details.

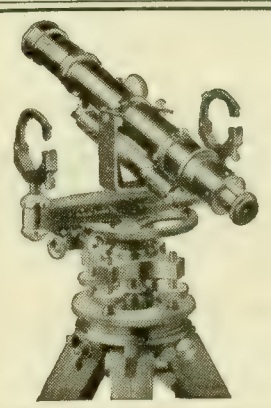
Residence, Bryn Mawr avenue and City avenue, Philadelphia. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 25x45 feet, shingle roof, oak and yellow pine floors, stone foundations. Architect has received bids.

Schools (2), Ninth street and Oregon avenue, and Seventieth street and Buist avenue, Philadelphia. Architect, private plans. Owners, Board of Education, care J. Cassell, Nineteenth street above Chestnut. Stone, 3 stories. Plans completed. Owners will be ready for bids in about one week.

Store and Dwelling (alts. and add.), 2942-45 Kensington avenue, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Bldg., Phil-

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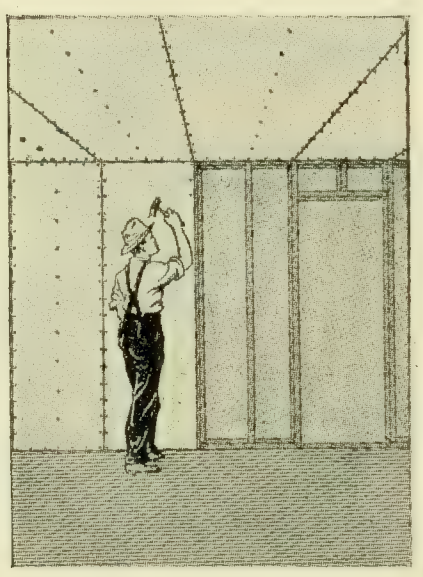
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adelphia. Owner, Morris Robinson, on premises. Brick, 3 stories, 36x7 feet, slag roof, maple and oak floors, metal ceilings, stone foundations, hot water heating, electric lighting, iron work. Architect taking bids due January 29. Pierce-Henon Co., Bulletin Bldg., Jacob Gorchov, 4116 Girard avenue, Frank Lucci, 1603 Ellsworth street, J. M. Yardley, 1716 Sansom street, and Kober Construction Co., Middle City Bldg., are figuring.

Store (alts.), 2627-29 Germantown avenue, Philadelphia, $10,000. Architect, private plans. Owner, Stephen C. Berger, New York City. General alterations, new fronts, plate glass, painting. F. W. Woolworth Co., New York City, will build.

Residences (32), Forty-ninth and Larchwood avenue, Philadelphia. Architect, I. Demchick, 4761 North Eleventh street, Philadelphia. Owner, Rose Construction Co., 1112 Widener Building, Philadelphia. Stone, brick and stucco, 2 stories, 20x50 feet, slate and slag roof, oak floors, stone foundation, hot water heating, electric light. Plans about completed. Owners will take sub-bids.

Store and Apartments (alts. and add.), Huntingdon street and Germantown avenue. Architect, Wm. H. Wooters, 816 West Allegheny avenue. Owner, Otto Schlieske, on premises. Brick, 3 stories, 125x21 feet, slag roof, pine floors, stone foundations, steam or hot water heating, electric lighting, tile work, plate glass, hollow metal skylights, concrete work, fireproofing, fire tower, iron work. Architect will be ready for bids in a week.

Garage and Meeting Hall, Sixteenth and Bainbridge streets. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Hotel Brotherhood, U. S. A., care of architect. Brick and limestone, 2 stories, 67x200 feet, slag roof, cement and maple floors, concrete foundations, steam heating, electric lighting. Architect taking bids, due February 4th. F. L. Hoover & Son, 1023 Cherry street; Mitchel Bros., 2125 Race street; E. E. Hollenbach, Inc., 1804 Brandywine st., and J. F. Trent, 2041 Master street, are figuring.

Store (alts. and add.), southeast corner of Twelfth and Girard avenue, Philadelphia. Architect, E. L. Rothschild, 1011 Chestnut st., Philadelphia. Owner's name withheld. General alterations, new front, etc. Plans in progress.

Bank (alts.), fifth and seventh floors, 925 Chestnut street, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, Federal Reserve Bank, 925 Chestnut street, Philadelphia. Plastering, plumbing, cabinet work, electric work. Architects taking bids, due January 28th. Smith-Hardican Co., 1606 Cherry street; Jacob Myers & Sons Co., Witherspoon Building, and F. L. Hoover & Sons, 1023 Cherry street, are figuring.

Office Building, Fourth and Sedgley avenue, Philadelphia. Architect, private plans. Owners, Pecora Paint Co., on premises. Brick, 2 stories, 31x60 feet, slag roof, maple and pine floors, metal lath, stone foundations. Builder, John R. Wiggins & Co., Otis Building, taking sub-bids, due February 3rd.

Manufacturing Building, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owners, Standard Crown Co., Hope and Palmer streets, Philadelphia. Brick, slow burning construction, 1 story, 62x200 feet, wing 16x20 feet, composition roof, stone foundations, steam heat, electric lighting, rolled steel sash, plumbing, cement and mineral flooring. Plans in progress.

Store Building (alts. and add.), 2204-12 N. Broad street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, J. B. Gillies, on premises. Brick, terra cotta and steel, 108x70 feet, slag roof, maple

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floors, metal lath, electric lighting, rolled steel sash and skylights, metal ceilings, dampproofing, iron work (heating and electric work reserved). Architect taking bids, due February 6th. Smith-Hardican Co., 1606 Cherry street; Kober Const. Co., Middle City Building; Wm. R. Dougherty, 1610 Sansom street; W. O. Springer, 1624 Latimer street; B. Bornstein, 1510 North Franklin street, and J. Sims Wilson Co., 1125 Brown street, are figuring.

Manufacturing Building, southwest corner of Tenth and Pearl streets, $22,000. Engineers, Franklin & Co., 906 Crozer Building, Philadelphia. Owners, Jarden Lithograph Co., on premises. Brick, 2 stories, 38x53 feet, slag roof, steam heating. Plans completed. Architects and engineers will be ready for bids in one week.

Store and Dwelling (alts. and add.), 1925 Broad street, $2,000. Owner, Schuyler Armstrong, 1927 North Broad street, Philadelphia. Brick, second story addition, 13½x15 feet 10 inches, general alterations. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Sales Room and Office Building, Broad and Vine streets, Philadelphia. $550,000. Architects, McIlvain & Roberts, Otis Bldg., Philadelphia. Owners, Bigelow Willey Motor Co., 304 North Broad street, Philadelphia. Brick, terra cotta and steel, 10 stories, 85x120 feet, slag roof, oak and concrete floors, stone foundation, steam heating, electric lighting, tile and marble work, metal lath, kalamein doors, waterproofing, dampproofing, ornamental iron work. Contract awarded to John N. Gill & Co., Otis Bldg., Philadelphia.

Tank Support, Tioga and Weikel streets, Philadelphia, $5,000. Architetcs, private plans. Owners, Liquid Carbonic Co., Tioga and Tulip streets, Philadelphia. Tank supports. Contract awarded to F. A. Havens & Co., 845 North Nineteenth stret, Philadelphia.

Factory (add.), N. S. of Schiller street, West of Belgrade street, $6,000. Architect, private plans. Owner, C. F. Simonins Sons, Belgrade and Tioga streets. Brick, 2 stories, 32x62½ feet, slag roof, electric lighting. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue, Philadelphia.

Store and Residence (alts. and add.), 53 North Fifty-second street, Philadelphia. $4,500. Architect, Carl P. Berger, 1416-18 Penn Square Bldg., Philadelphia. Owner, Thos. Hein, on premises. Brick, 3 stories, rear addition 12x12 feet and 2 stories, front 15x15 feet, slag roof, oak and pine floors, hot water heating, electric lighting. Contract awarded to Wm. Heim, 53 North Fifty-second street, Philadelphia.

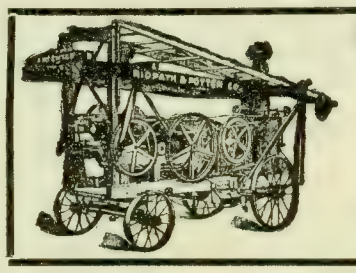
Residence (alts.), Northeast Corner Ridge avenue and Sumac street, $4,000. Architect, private plans. Owner, J. F. Strawinski, on premises. General interior alterations. Con



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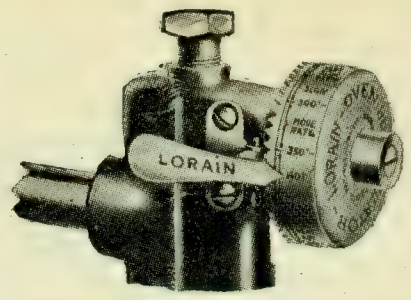
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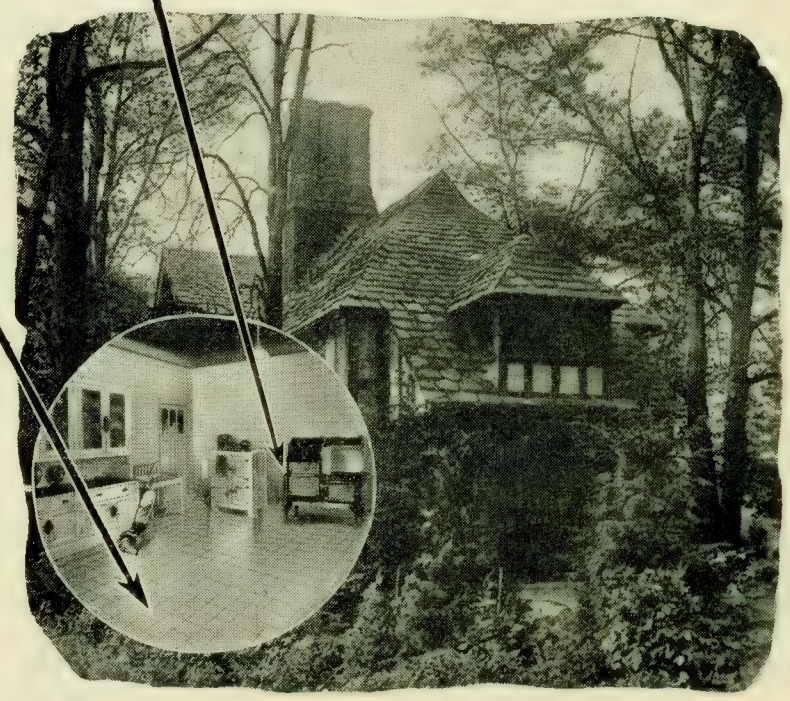
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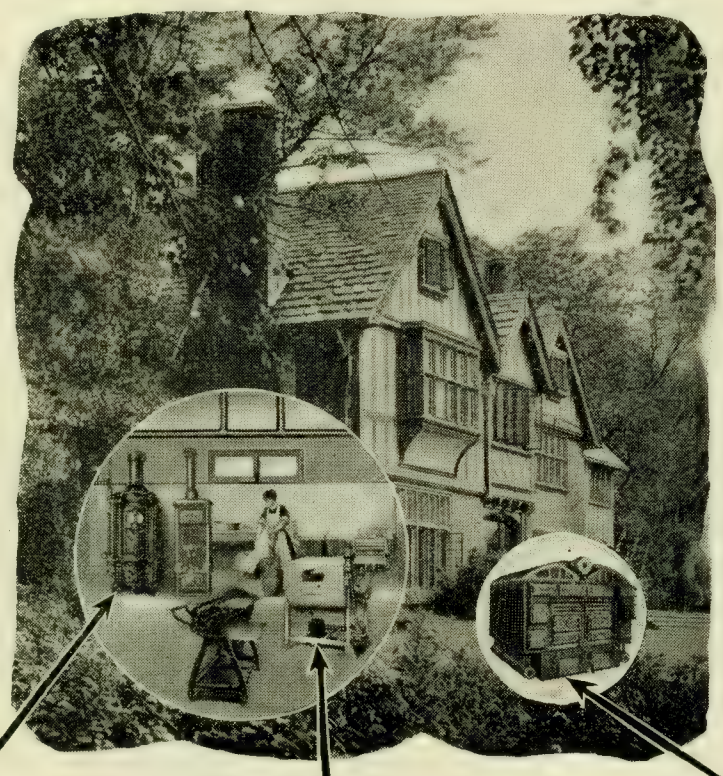
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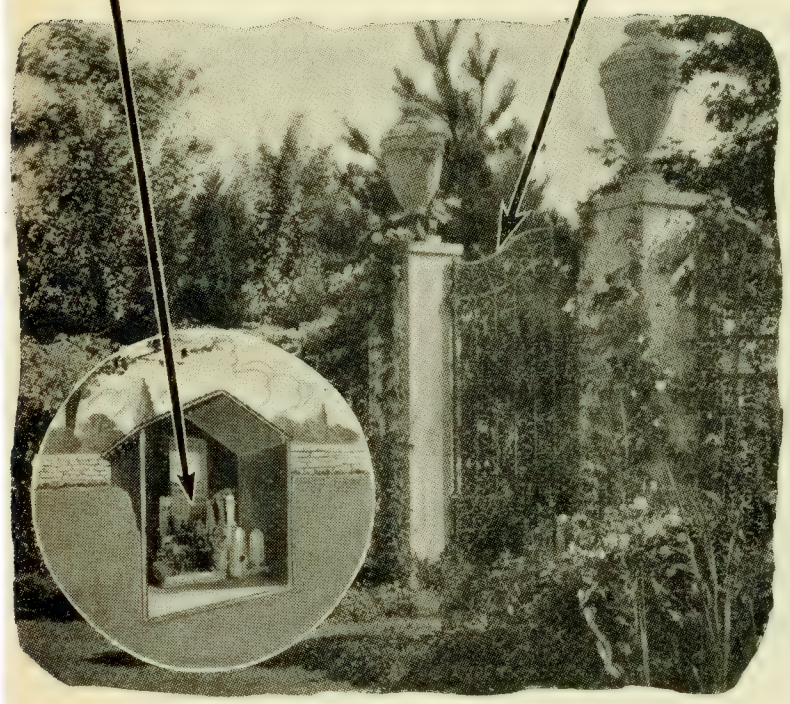
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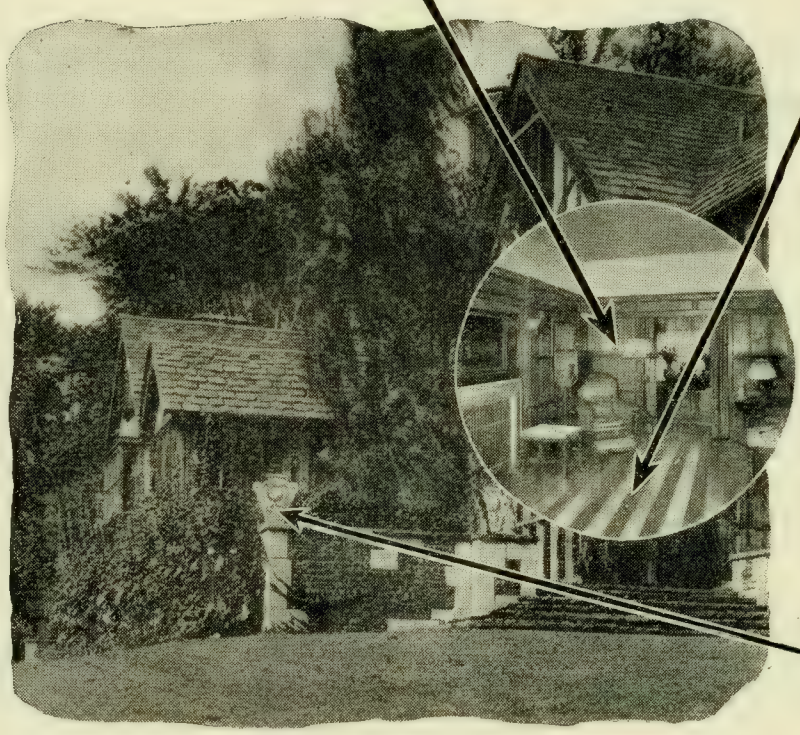
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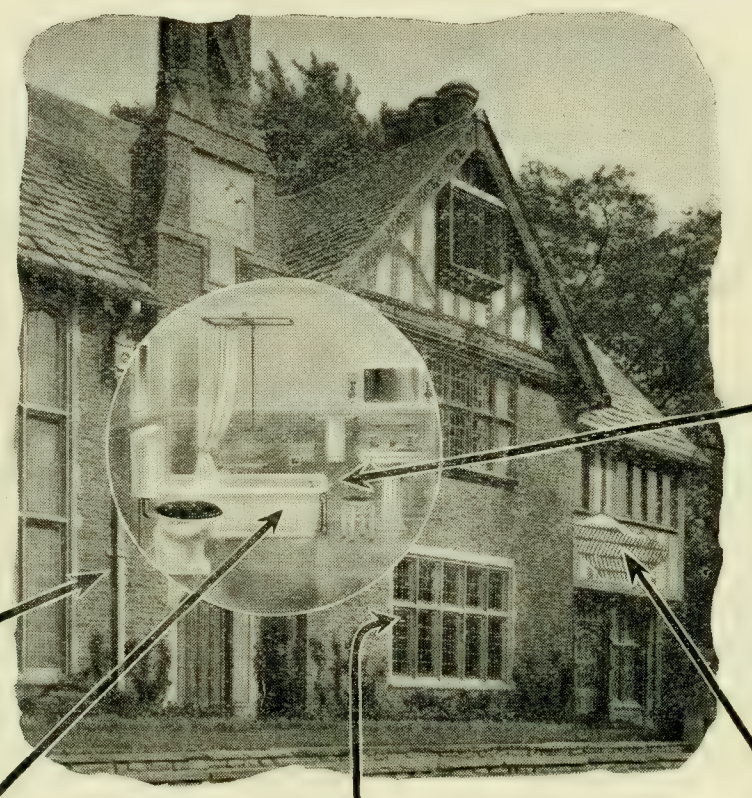


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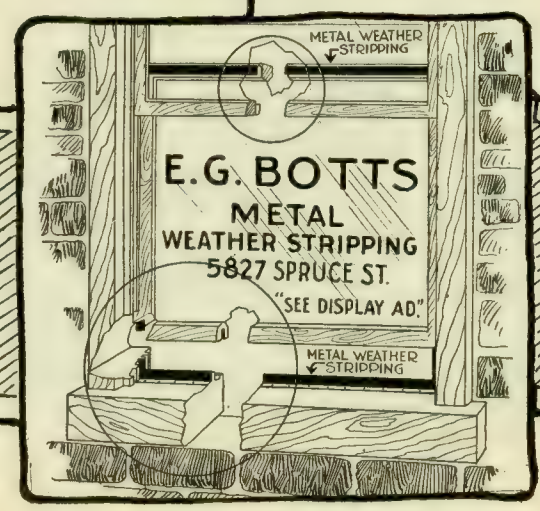






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tract awarded to Wm. H. Eddleman & Son, 453 Green Lane, Germantown, Philadelphia.

Factory (alts.), 534-36 North Third street, Philadelphia, $7,000. Architect, private plans. Owner, Jas. L. Lockhart, Northwest Corner Fifth and Green streets. General alterations. Contract awarded to Wm. V. Morris, 711 S. Fifty-second street, Philadelphia.

Factory, Thirtieth and Walnut street, Philadelphia. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, J. J. Greenberg, Morris Bldg., Philadelphia. Brick, 1½ stories, 15,000 sq. feet of space, slag roof, cement floors, stone foundation, steam heat, electric lighting, rolled steel sash and skylights, fire doors. . Contract awarded to Wark & Co., 1737 Filbert street, Philadelphia.

Residence (alts.), and Office Addition, 1614 Locust street, Philadelphia, $15,000. Architect, private plans. Owners, Central Realty Co., on premises. Brick, 2 stories, irregular size, 16x2 feet and 27x20 feet, changing into 2-family dwelling. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Apartment House, Northwest Corner Seventeenth and Rittenhouse streets, Philadelphia, $1,000,000. Architect, Frederick Webber, Morris Bldg., Philadelphia. Owner, Wallace Simpson, Medical Arts Bldg., Philadelphia. Brick, steel and stone and terra cotta, 16 stories, 66x54 feet, slag roof, oak floors, hollow tile, concrete foundation, steam heating, electric lighting, tile and marble work, dumbwaiters, elevators. Contract awarded to Wm. R. Chapman & Sons, 1506 Washington avenue, Philadelphia.

Factory, Southwest Corner State Road and Bleigh street, $10,000. Architects, private plans. Owners, Pre Cast Products Co., Commercial Trust Bldg., Philadelphia. Hollow tile, 1 story, 75x80 feet, slag roof, steam heating. Contract awarded to Alex. Chambley, 2065 Summer street, Philadelphia.

Repair Shop (alts.), 1622-24 Ludlow and 1623 Randstead street, $3,500. Architect, private plans. Owner, Harry T. Saunders, Agent, 33 South Eighteenth street, Philadelphia. General alterations. Contract awarded to Hughes-Foulkrod Company, Commonwealth Bldg., Philadelphia.

Lodge Rooms and Dwelling (alts and add.), 1517 Girard avenue, $4,000. Architect, private plans. Owners, Women's Beneficial Macabees, on premises. Brick, 4 stories, 15x 10½ feet. Contract awarded to Wm. H. Pierce, 4012 North Twelfth street, Philadelphia.

Service Station (add.), Sixty-third and Ludlow streets, $1,500. Architect, private plans. Owners, Atlantic Refining Co., 1211 Chestnut street, hiladelphia. Brick rest room, 1 story, 8x15 feet. Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Store and Dwelling (alts.), to Store and Hotel, Delaware avenue and Market street, Philadelphia, $5,000. Architect, private plans. Owners, Pennsylvania R. R. Co., Broad Street Station, Philadelphia. General alterations. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

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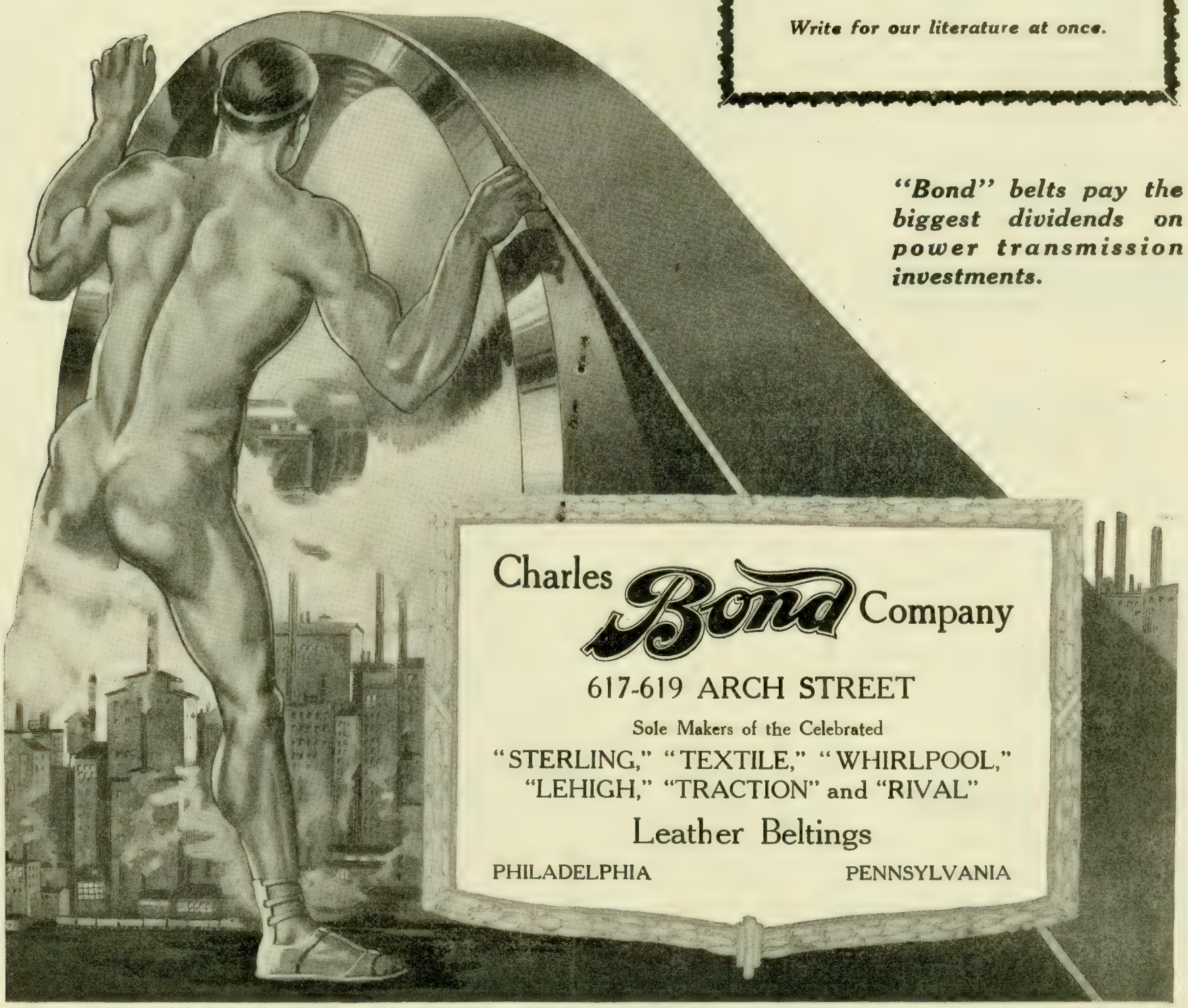
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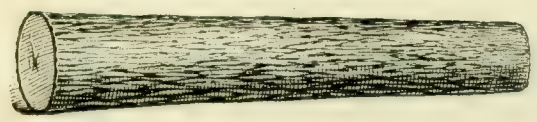
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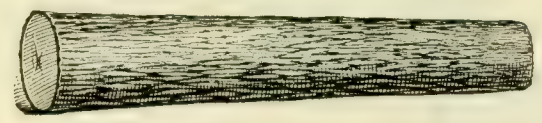
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Residence, Wayne, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Bldg., Owner, Frank V. Hurcomb, care Architects. Frame, 2 stories, 22½x23 feet, shingle roof, pine floors, hot air heating, electric lighting, tile work. Architects taking sub-bids.

Mill Building (First of Series of Six Units) Chester, Pa. Architects, private plans. Owners, Allison & Co., Law Bldg., Chester, Pa. Concrete and steel, 1 story, 60x200 feet, slag roof, steam heat, electric light, rolled steel sash. Owners have received bids.

Residence, Warrington, Pa. Architect, A. Oscar Martin, Hart Bldg., Doylestown, Pa. Owner, Howard Holbert, Warrington, Pa. Hollow tile and stucco, 2½ stories, 28x32 feet, slate roof, maple floors, pipeless heating, electric lighting. Owner is taking sub-bids.

Swimming Pool and Dressing Room, Villa Nova, Pa. Architect, John J. Kennedy, Ford Bldg., Wilmington, Del. Owners, Villa Nova College, Villa Nova, Pa. Brick and steel, cement and stone work, 30x100 feet. Architect taking bids due February 11. Monaghan & Losse, Inc., 3016 Chestnut street, Wm. R. Dougherty, 1610 Sansom street, and Jacob Myers & Sons, Witherspoon Bldg., Philadelphia, are figuring.

Residence, Bethlehem, Pa. Architect, C. F. Spanganburg, 504 Broadway, Bethlehem, Pa. Owner, Mr. Scholler, Broad street, Bethlehem, Pa. Brick, 3 stories, 14x50 feet, concrete foundation, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Twin House, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlem, Pa. Owner, Albert Taglong, 728 Wyandotte street, Bethlehem, Pa. Brick, 2½ stories, 30x50 feet, concrete foundation, slate roof, pine floors, steam heat, electric lights. Plans in progress.

School (Annex) Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Bldg., Allentown, Pa. Owner, Allentown School Board, G. P. Wenner, Secretary, Allentown, Pa. Brick, fireproof, 2 stories, and basement, 100x118 feet, asphalt roof, concrete and tile floors, electric light, tile and terrazzo work, hollow metal skylights, fire doors, roof ventilators, metal window guards. Plans in progress.

Silk Mill (add.), Allen street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Bldg., Allentown, Pa. Owner, Majestic Silk Mill Co., on premises. Brick, slow burning, 3 stories, 66x217 feet, steel truss roof, wood floors, heating extension, electric light, rolled steel skylights, roof ventilators, fire doors. Architect ready for bids.

Silk Mill, Allen street, Allentown, aP. Architects, Jacoby & Everett, Commonwealth Bldg., Allentown, Pa. Owner, Majestic Silk Mills, on premises. Fireproof, 1 story, 50x217 feet, concrete foundation, steel truss roof, mill construction floors, heating extension, electric light, hollow metal sash and skylights, fire doors, roof ventilators. Architect taking bids due January 30. Wm. H. Gangwere Co., Ochs Construction Co., Tilghman Moyer & Ritter & Smith, Allentown, Pa., are figuring.

Theatre, Windbur, Pa. Architect, Reinhold & Land, 1513 Walnut street, Philadelphia. Owner, Windbur Corporation, Windbur Somerset County, Pa. Brick, 2 stories, 200x500 feet, slag roof, composition floors, stone foundation, steam heat, electric light, tile, marble and terrazzo work, ventilating system. Architects taking bid from M. H. McCloskey, Jr., 1620 Thompson street, Philadelphia. Only bidder.

Factory, Gouldsboro, Pa. Architect, Lewis Hancock, Mear Bldg., Scranton, Pa. Owner, H. A. Reiling, Inc., Eng. Club, Scranton, Pa. Brick, mill construction, 1 story, 100x100 feet, slag roof, maple floors, steam heat, electric light, roof ventilators. Plans in progress.

Warehouse (add.), Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Bldg., Wilkes-Barre, Pa. Owner, name withheld. Brick, steel, 3 stories and basement, 23x100 feet, slag roof, pine floors, steam heat, electric light, structural steel work, fire escapes. Architect is ready for bids.

Bridge, Hill to Hill, Bethlehem, Pa., $2,500,000. Construction Engineer, Clarence W. Hudson, 15 Park Row, New York City. Owners, Public Commission Service, care A. Geo. Shoffner, Secretary, 53 East Broad street, Bethlehem, Pa. Structural steel and concrete, 6,000 feet long. Owners taking bids due February 25 until noon. $100 deposit. $90 refund for plans and specifications returned in good condition. Certified check for $100,000 to accompany each bid. Arthur McMullen Co., 1105 Finance Bldg., and T. L. Eyre, Commercial Trust Bldg., Philadelphia, Smith, Hauser & MacIsaac, Inc., 18 East 41st st., P. T. Cox Construction Co., 154 Nassau street, both of New York, John H. McGibbons, New Willard Hotel, Washington, D. C., Smith-McCormick Co., Easton, Pa., Dravo Construction Co., Pittsburgh, Mellon-Stuart Co., Pittsburgh, McLean Construction Co., Fidelity Bldg., and The Arundel Corporation, Fidelity Bldg., Baltimore, Md., Bates & Rogers Construction Co., 27 West Van Buren street, Chicago, Ill., Walsh Construction Co., 403 Herald Bldg., Syracuse, N. Y., Traylor-Dewey Construction Co., Allentown, Pa., H. P. Converse & Co., 88 Broad street, Boston, Mass., are figuring.

Silk Mill, Bloomsburg, Pa. Architect, Schmitt & Schroeder, Weitzenkorn Bldg., Wilkes-Barre, Pa. Owner, Columbia Silk Thread Co., Seventh street, Wilkes-Barre, Pa. Brick, 1 story, 90x108 feet, slag roof, hardwood floors, steam heat, electric light, hollow metal sash, fire doors, roof ventilators. Architect taking bids due Feb. 7. A. M. Hildebrand, Wilkes-Barre, Robert Lentz, Freeland, Pa., U. L. Campbell, Hazelton, Pa., and Richards Construction Co., Bloomsburg, Pa., are figuring.

Silk Mill (add.), Kingston, Pa. $50,000. Architect, G. S. Welch, Coal Exchange Bldg., Wilkes-Barre, Pa. Owner, Crane Bros., Kingston, Pa. Slow burning, 2 stories, 50x120 feet, concrete foundation, slag roof, maple floors, electric light, hollow metal sash and skylights, fire doors, roof ventilators, fireproof stairs. Plans in progress. Architect will be ready for bids in two weeks.

Public Garage, Darling street, Wilkes-Barre Pa. Architect, H. A. Maier, Coal Exchange Bldg., Wilkes-Barre, Pa., Owner, name withheld. Brick, steel (structural), 1 story, 90x110 feet, slag roof, concrete foundation, concrete floors, steam heat, electric light, rolled

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steel sash and skylights, roof ventilators, gasoline storage system. Architect will be ready for bids in one week. Plans in progress.

Garage, South Main street, Wilkes-Barre, Pa. Architect, F. H. Atherton, Coal Exchange Bldg., Wilkes-Barre, Pa. Owner, Gildersleeve Estate, on premises. Fireproof, 2 stories, 225x45 feet, concrete foundation, slag roof, concrete floors, electric light, hollow tile, elevators, roof ventilators, rolled steel sash and skylights, fire doors. Plans in progress. Architect will be ready for bids in one week.

Showroom and Service Station, Mulberry street, Scranton, Pa. Architect, Fred Nelson, Connell Bldg., Scranton, Pa. Owner, Russell Motor Car Co., T. F. Leonard, Scranton, Pa. Brick and concrete, 1 story, 40x140 feet, concrete foundation, composition floors, concrete floors, electric light, hollow metal sash and skylights, fire doors ,roof ventilators, gasoline storage system. Plans in progress. Architect will be ready for bids in three weeks.

Church, Larksville, Pa., $60,000. Architect, Architect, A. I. Prawdzik, Scranton Life Bldg., Scranton, Pa. Owner, St. John's Parish, Rev. Paul Kopecki, Larksville, Pa. Frame, stucco, 56x110 feet, concrete foundation, asbestos shingle roof, wood floors. Plans in progress. Architect will take bids in three weeks.

School, East Easton, Pa. Architect, A. D. Chidsey, 341 Northampton street, Easton, Pa. Owner, School Board of Easton, care Chas. Magee, Easton, Pa. Brick, 2 stories and basement, 80x240 feet. Too early for details.

High School, Easton, Pa., $500,000. Architect, A. D. Chidsey, 341 Northampton street, Easton, Pa. Owners, School Board of Easton, care of Chas. Magee, Easton, Pa. Brick and reinforced concrete, 2 stories, 260x370 feet. Preliminary plans in progress. Too early for details.

Store and Hall, Northampton, Pa., $20,000. Architect, E. R. Bitting, Wilbur Trust Bldg., Bethlehem, Pa. Owner, Geo. Snyder, Northampton, Pa. Brick, 2 stories, 60x120 feet, concrete foundation, slag roof, maple floors, steam heat, electric light, tile work, roof ventilators. Preliminary plans in progress.

Bank (alts.), Reading, Pa. Architect, Edw. Langly, Scranton Life Bldg., Scranton, Pa. Owner, Keystone National Bank, care J. Bailey, President, Reading, Pa. Limestone and granite, new front, tile, marble and terrazzo work, rolled steel sash, ornamental plaster, Architect has received bids.

Store (alts.), Market street, Scranton, Pa. Architects, Morris & McHale, Burr Bldg., Scranton, Pa. Owner, W. J. Leonard, on premises. General interior alterations, patent floors, marble work, plate glass. Architect has received bids.

Residence (alts.) to Apartment, Scranton, Pa. Architect, F. A. Nelson, Connell Bldg., Scranton, Pa. Owner, Scragg Estate, Scranton, Pa. Frame and stucco, 3 stories, new plumbing, slag roof, hardwood and composition floors, electric light, tile work. Architect taking sub-bids.

Residence (alts.) to Apartment, Terrace Road, Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Bldg., Wilkes-Barre, Pa. Owner, N. Wiseman, American Auto Supply Co., 39 West Market street, Wilkes-Barre, Pa. New plumbing, steam heat, tile work, painting, interior alterations. Plans in progress. Owner will build.

Garage, Kingston, Pa. Architect, G. S. Welch, Coal Exchange Bldg., Wilkes-Barre, Pa. Owner, John Redington, 73 James street, Kingston, Pa. Frame, 1 story, 24x30 feet, shingle roof, cement floors, steam heat, electric light. Owner will build.

Armory, Wilkes-Barre, Pa. $500,000. Architect, F. H. Atherton, Coal Exchange Bldg., Wilkes-Barre, Pa. Owner, State Armory Board, Harrisburg, Pa. Too early for details.

High School, Berwick, Pa. $150,000. Architect, care owner. Owner, Berwick Township School Board, Berwick, Pa. Brick, fireproof, 2 stories, slag roof, maple floors, electric light, roof ventilators. Plans in progress.

Residence, Olyphant, Pa. Architect, E. H. Davey, Coal Exchange Bldg., Scranton, Pa. Owner, Mr. Spitz, Olyphant, Pa. Stucco, 2½ stories, 36x38 feet, concrete foundation, asbestos shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Theatre (alts.), Towanda, Pa. Architect, R. M. Herr, Simon Long Bldg., Wilkes-Barre, Pa. Owner, name withheld. General interior alterations, new seats, steam heat, tile and marble work, roof ventilators. Plans in progress.

School, Newport Township, Pa. Architect, R. M. Herr, Simon Long Bldg., Wilkes-Barre, Pa. Owner, School Board of Newport Township, care Peter Sarpholens, Alden, Pa. Brick, 2 stories, 100x110 feet, stone foundation, slag roof, pine floors, steam heat, electric light, roof ventilators. Plans in progres.

Nurses Home, Nanticoke, Pa. Architect, McCormick & French, Second National Bank Bldg., Wilkes-Barre, Pa. Owner, State Hospital, care Dr. S. G. Heyer, Nanticoke, Pa. Brick, 2 stories, 36x93 feet, stone foundation, slate roof, pine floors, steam heat, electric light. Plans in progress.

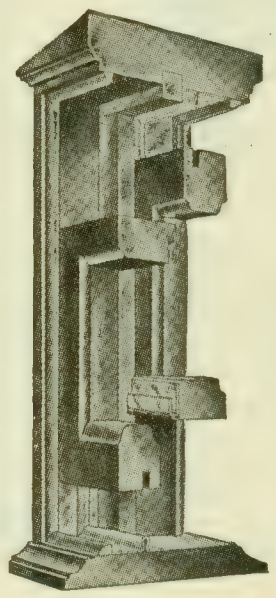
Store and apartment (alts. and add.), South Washington street, Wilkes-Barre. Architect, H. A. Maier. Coal Exchange Bldg., Wilkes-Barre, Pa. Owner, Mr. Finkelstein, 42 East Northampton street, Wilkes-Barre, Pa. Brick, 2 stories, 10x40 feet, slag roof, pine floors, steam heat, general interior alterations, plate glass. Plans in progress.

Silk Mill, Wilkes-Barre, Pa., $400,000. Architect, G. Welch, Coal Exchange Bldg., Wilkes-Barre, Pa. Owner, Puritan Silk Corporation, care Mr. Chamberlain, Wilkes-Barre, Pa. Fireproof, reinforced concrete, 2 and 3 stories, slag roof, maple floors, electric light, roof ventilators, rolled steel sash and skylights, fire doors, 112x226 feet, 66x164 feet. Plans in progress.

Theatre and Apartment, Northampton, Pa., $40,000. Architect, E. R. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, H. A. Miller, Northampton, Pa. Brick, 2 stories, 60x142 feet, concrete foundations, slag roof, wood floors, steam heat, electric light, tile and marble work, fire doors, roof ventilators. Preliminary plans in progress.

Hotel (add.), Easton, Pa. Architect, Wm. Michler, Drake Building, Easton, Pa. Owner, Hotel Easton, care of Williams Bros., Easton,

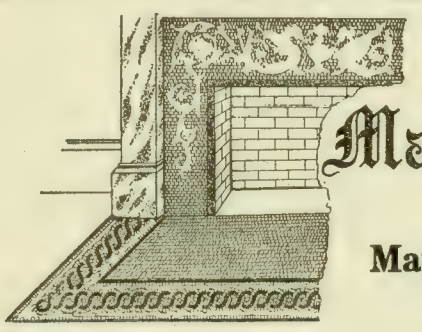
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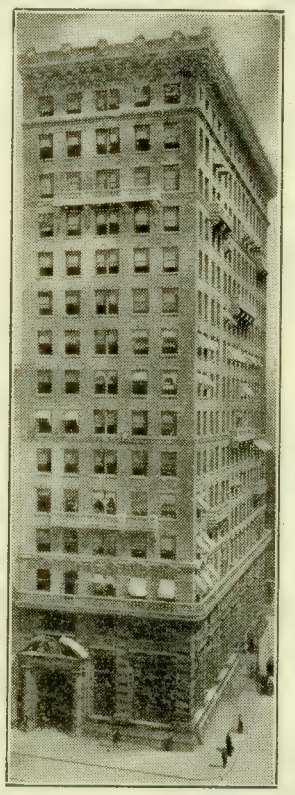
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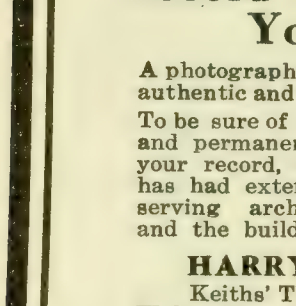
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Store (2) and Apartment, Northampton, Pa. Architect, E. R. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, George Steger, Northampton, Pa. Brick, 2 stories, 40x75 feet, concrete foundations, slag roof, pine floors, steam heat, electric light, marble and terrazzo work. Plans in progress.

School (add.), Freemansburg, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owners, Freemansburg School District, Freemansburg, Pa. Brick, 2 stories, 31x64 feet, stone foundations, slate roof, maple floors, steam heat, electric light, roof ventilators. Architect will be ready for bids February 1st.

Garage and Comfort Station, Merion, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion School Board, Merion, Pa. Brick, 1 story and basement, 26x86 feet, slate roof, cement and pine floors, stone foundations (heating, electric work and plumbing separate bids). Architect taking revised bids, due February 5th. Wm. R. Graham, 3649 Filbert street; Bowden Const. Co., 1713 Sansom street; Standard Construction Co., 1713 Sansom street; W. O. Springer, 1624 Latimer street; E. J. Hedden, Finance Building; A. L. Fretz & Son, Heed Building, are figuring.

School (completion), Wissinoming, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Bartholomew's R. C. Chruch, care of Rev. Joseph J. Scanlan, on premises. First and second floors, 113x113 feet, stone, slag roof, pine floors. Architect taking bids from T. J. & J. R. Whelan, 214 South Forty-ninth street, Philadelphia.

Bank (alts. and add.), Chester, Pa. Architect, Benj. Stevens, 1737 Filbert street, Philadelphia. Owners, First National Bank, Chester, Pa. Brick, stone and steel, 1 story and balcony, 15x26 feet, slag roof, cement and cork floors, hollow tile, terra cotta, metal lath, stone foundations. Architect taking bids, due February 4th. F. G. Stewart, 1619 Sansom street; H. E. Baton, 1713 Sansom street; Robert E. Lamb Co., 843 North Nineteenth st., Philadelphia; Chester Const. & Cont. Co., Arthur Machin, Wm. Provost, and Fred Brown, all of Chester, Pa., are figuring.

Residence (alts. and add.), Lansdowne, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Clarence E. Hall, Lansdowne, Pa. Brick, two-story addition, general alterations. Architects taking bids, due February 5th. J. Sims Wilson & Co., 1125 Brown street; Jacob Myers & Sons Co., Witherspoon Building; Smith- Hardican Co., 1606 Cherry street, and Wm. N. Thompson, 1529 Filbert street, are figuring.

Store and Apartment, Wyoming street, Hazelton, Pa., $15,000. Architect, L. Reisman, Miller Building, Scranton, Pa. Owner, Samuel Rosen, Hazelton, Pa. Brick, 3 stories, 130x62 feet, slag roof, hardwood floors, electric light, tile work. Plans in progress.

PENNSYLVANIA
Contracts Awarded

Silk Mill, Palmerton, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Read & Lovett Co., of New York, care of Mr. Thorp, Weatherly, Pa. Brick and reinforced concrete, 1 story, 100x50 feet, concrete foundations, trussed roof, concrete and gumwood floors, electric light, tile work, roof ventilators. Contract awarded to Mr. Lesher, Weissport, Pa.

Factory, Easton, Pa. Architect, private plans. Owners, Lily Drinking Cup Co., 120 Broadway, N. J. Reinforced concrete, 4 stories, 80x300 feet, rolled steel sash. Contract awarded to White Const. Co., 95 Madison avenue, New York.

Farm Group (House, Garage, Creamery, Barns, Pump Station and Sewerage Disposal), near Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, F. A. Shick, Bethlehem Steel Co., Bethlehem, Pa. Stone, tile, lined tile. House, 2½ stories, various sizes, slate roof, yellow pine and cement floors, steam heat, electric light, tile work, hollow tile, roof ventilators. Contract awarded to Elmer Reinhardt, Coopersburg, Pa.

Factory, Kingston, Pa., $75,000. Architect, D. A. Morgan, Connell Building, Scranton, Pa. Owners, Fromberg Silk Co., Scranton, Pa. Reinforced concrete, 2 stories and basement, 56x190 feet, slag roof, wood floors, steam heat, electric light, rolled steel sash, kalamein doors, waterproofing. Contract awarded to United Fireproofing Co., 8 West Fortieth street, New York.

Store (alts.), Spruce and Wyoming streets, Scranton, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owners, Revalsos & Chakiris, on premises. Interior alterations ,steel work, terrazzo work, store fixtures, metal ceilings. Contract awarded to Blender Bros., Scranton, Pa.

Residence (alts.), Hazelton, Pa. Architect, George Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, the Hub Clothing Co., Hazelton, Pa. Plate glass, tile and marble work. Contract awarded to Samuel Dresher, Hazelton, Pa.

Public Garage, Newtown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, D. R. Bond & Bros., Newtown, Pa. Brick and terra cotta tile, 2 stories, 80x80 feet, tin roof, concrete floors, elevators, electric light, hollow metal sash, flush bulk. Contract awarded to Harry Girton, Newtown, Pa.

Cigar Factory, Bethlehem, Pa. Architect, A. Oscar Martin, Hart Building, Doylestown, Pa. Owner, Allan R. Cressman Sons, Sellersville. Brick, steel and stone, 2 stories, 65x120 feet, slag roof, pine floors, stone foundations, hot water heat, electric light, fireproof construction. Contract awarded to Stoneback & Nace, Quakertown, Pa.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C.—January 16, 1920.—Sealed Proposals will be opened in this office at 3 P. M. February 16, 1920, for remodeling the United States Post Office and Court House building at Pittsburgh, Pa. Drawings and specifications may be obtained from the custodian of the building, Pittsburgh, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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NEW JERSEY Construction News

Residence (renovation) and Garage, Mt. Holly, N. J. Architects, E. A. Wightman & W. G. LeConey, associated, Heed Building, Philadelphia. Owner, J. T. Royle, Mt. Holly, N. J. General renovation of residence, new tile roof, hardwood floors, hot water or vapor heating, electric lighting, tile work, new partitions, new porch, painting, new garage, hollow tile and stucco, 1 story, 22x24 feet. Plans in progress. Architects will be ready for bids in about one month.

School (add.), National Park, N. J. Architect, Chas. R. Peddle, 126 South Fourth street, Philadelphia. Owners, Board of Education, West Depford Township, care of Edw. R. Allen, president, National Park, N. J. Frame and rough cast, 1 story, 30x70 feet. Plans in progress.

School (add.), Red Bank, N. J. Architect, Chas. R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, West Depford Township, Thorofare, N. J. Hollow tile or cement, 1 story, 30x70 feet, shingle roof, maple floors, stone foundations (heating, lighting and plumbing, extensions, reserved). Architect and owners taking bids, due February 9th at 7:30 P. M.

School, Jericho, N. J. Architect, Chas. R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Depford Township, N. J. Cement, 1 story, 30x70 feet. Plans in progress. Too early for details.

School, Blackwood Terrace, N. J. Architect, Chas. R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Depford Township, N. J. Cement, 1 story, 30x70 feet. Plans in progress. Too early for details.

School, Pennsville, Salem County, N. J. Architect, Chas. R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Lower Penn's Neck, Salem County, N. J. Brick, 2 stories, 75x125 feet. Preliminary plans in progress. Too early for details.

Service Station, Whitehorse Pike and Haddon avenue, Camden, N. J. Architect, private plans. Owners, Texas Co., Widener Building, Philadelphia. Concrete, 1 story, 30x60 feet, Texaco rubberoid roof, concrete floor, hollow tile, metal lath, roof ventilators, concrete foundations, steam heat, electric light, rolled steel sash and skylights, fire doors, iron work. Owners have received bids.

High School, Philipsburg, N. J., $300,000. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owners, Board of Education, care of John Monahan, secretary, Philipsburg, N. J. Brick, 3 stories. Too early for details.

School, Philipsburg, N. J. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owners, R. C. Church, care of Father Bascio, Philipsburg, N. J. Brick, 2 stories and basement, 60x80 feet, stone foundations, slate roof, maple floors, steam heat, electric light, structural steel, roof ventilators, school equipment. Architect will be ready for bids February 10th.

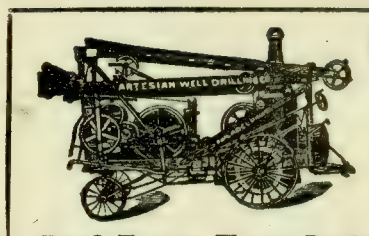
Bank, Philipsburg, N. J. Architect, Wm. Michler, Drake Building, Easton, Pa. Owners, Philipsburg Trust Co., Wm. Nixon, president, Philipsburg, N. J. Brick and tile, 1 story, 40x60 feet, concrete foundations, asbestos shingle roof, tile and concrete floors, vapor heat, electric light, tile and marble work, vaults, rolled steel skylights, bank fixtures, roof ventilators, metal window guards, iron work. Architect has received bids.

Building No. 177 (alts. and add.), Picatinny Arsenal, Dover, N. J. Architect, private plans. Owners, Construction Division, War Department, Washington, D. C. Steel, concrete, hollow tile and terra cotta, 2 stories, 107x52 feet, asbestos corrugated roof, fireproof floors, roof ventilators, dampproofing, concrete foundation, steam heat, electric light, rolled steel skylights, iron stairs, ornamental iron work. Owners have received bids.

Apartment House, Woodstown, N. J. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, D. N. Humphreys, Woodstown, N. J. Brick, 2 stories, 20x78 feet, slag roof, oak and composition floors, steam heat, electric ligt, tile and marble work, stone foundations, iron work. Plans completed.

Hall, Bathing Pool, River avenue, Trenton, N. J., $50,000. Architect, M. A. Schumann, 932 Lamberton street, Trenton, N. J. Owner, Louis Schmidt, Riverside Inn, Trenton, N. J. Stucco and frame, 1 story, 46x120 feet, concrete pool. Plans in progress.

Y. M. C. A. Building, East State and Clin-



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ton streets, Trenton, N. J., $300,000. Architects, Jallade, Lincsay & Warren, 37 Liberty street, New York. Associated architects, Wm. Klemann, First National Bank Building, and J. O. Hunt, Montgomery avenue, Trenton, N. J. Owners, Y. M. C. A., care of A. H. Arthur, president, Trenton Trust and Safe Deposit Co., 26-30 West State street, Trenton, N. J. Brick, 7 stories, 125x160 feet, stone foundations, steam heat, electric light, tile and marble work, rolled steel skylights, roof ventilators. Plans in progress.

School (add.), Jamesburg, N. J., $60,000. Architects, Pierson & Son, Perth Amboy, N. J. Owners, Jamesburg School Board, care of Mr. J. Baremore, president, Jamesburg, N. J. Brick, 2 stories, stone foundations, slag roof, electric light. Plans in progress.

School, Sayreville, N. J., $65,000. Architect, Mr. Alex. Merchant, New Brunswick, N. J. Owners, Sayreville School Board, care of F. Davis, Sayreville, N. J. Brick, 2 stories, irregular size, slate roof, hardwood floors, electric lighting. Plans in progress.

School, Pennsville, Salem County, N. J. Architect, Mr. Pedle, Woodbury, N. J. Owners, School Board, care of E. C. Kennedy, Pennsville, N. J. Brick, 2 stories, stone foundations, slag roof. Plans in progress.

Garage, Park street, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Raymond Robins, Bordentown, N. J. Steel, 1 story, 78x61 feet, slag roof, concrete floors, electric light. Plans in progress.

House, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Ed. Satterthwait, Farmsworth avenue, Bordentown, N. J. Frame, 2½ stories, 25x48 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Store (alts.), 118 North Montgomery avenue, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Mr. Frank Stone, on premises. Plate glass, tile floors, electric lighting, general interior alterations. Architect has received bids.

School (add.), Hamilton Township, N. J. Architect, Wm. Klemann, First National Bank Building, Trenton, N. J. Owners, Hamilton Square Township School Board, care of Wm. A. Robinson, Hamilton Square, Mercer Co., N. J. Brick, 2 stories, 40x100 feet, stone foundations, slag roof, concrete and wood floors, steam heat, electric light, hollow metal skylights, roof ventilators. Board is taking bids, due February 4th. R. M. Kearns, James H. Morris, Broad Street Bank Building; Burton & Burton, American Mechanics' Building; C. J. Smith, 202 Academy street; Trenton Building Co., C. Y. Barlow, Brook street; Wm. Ivins, 717 Greenwood street; I. H. Clayton, American Mechanics' Bank Building; S. D. Diekneit, 440 West Hanover street, and Fred Parker, 327 Calhoun street, all of Trenton, N. J., are figuring.

New Jersey

Contracts Awarded

Residence and Garage, Swedesboro, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Isaac Bradshaw, care of architect. Hollow tile and rough cast, 1½ stories, 42x62 feet and 10x20 feet, tile roof, pine floors, metal lath, iron work (roofing, heating and electric work reserved). Contract awarded to Parsons & Robinson, Pennsgrove, N. J.

Ice Cream Building (add.), Atlantic City, N. J. Architect, Walter S. Smedley, Stephen Girard Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Concrete and brick, 2 stories, 60x63x46 feet, triangular, slag roof, cement floors. Contract awarded to M. B. Markland, Atlantic City, N. J.

Cigar Factory, Fourth and Kaighn avenue, Camden, N. J. Architect, A. Oscar Martin, Hart Building, Doylestown, Pa. Owner, Allan R. Cressman & Sons, Sellersville. General alterations, composition floors, electric lighting, elevators. Contract awarded to H. C. Dahl, 231 South Eighth street, Philadelphia.

Miscellaneous

Construction News

Store Building (alts.), 119-121 West Baltimore street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Interstate Realty Co., Baltimore, Md. Brick, one additional story, 36x110 feet, slag roof, maple floors, electric light, steam heat, tile and marble work, electric elevators, general renovation. Plans completed. Architect taking bids from local contractors.

Dirigible Hangar and Sea Plane Hangar (alts. and add.), Langley Field, Hampton, Va. Architect, private plans. Owners, Construction Division, War Department, Washington, D. C. Cement, plastering, steel and concrete, 1 story, 390x176 feet and (2) New Seaplane Hangars, 205x190 feet, asphalt built up roof, cement floors, metal lath, concrete foundations, electric light, tile work, rolled steel sash, iron stairs and work. Owners taking bids, due, February 14th. Hughes Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

Residence, Wheeling, W. Va. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Mrs. Margaret A. Hove, Wheeling, W. Va. Hollow tile and stucco, 2½ stories, 26x40 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Owner will take sub-bids in about two weeks.

Bank Building (alts.), Baltimore and High streets, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Home Bank of Baltimore, on premises. General alterations to three-story building, hardwood floors, electric work, cabinet work. Plans in progress. Architect will take bids in about two weeks.

Delaware

Construction News

Home, Delaware avenue, Washington street and Eleventh street, Wilmington, Del. Owners, Benevolent and Protective Order of Elks, Wilmington, Del. Size of lot, 108⅛x73½x87x35 feet. Cost about $260,000. Building to be 6 stories. Building Committee receiving competitive plans. Advisor to committee, Warren P. Laird, University of Pennsylvania, Philadelphia. The following have been invited to submit plans by February 28th: DeArmond, Ashmead & Bickley, Franklin Trust Building; Zantzinger, Borie & Medary, Otis Building; Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia; Brown & Whiteside, du Pont Building; John D. Thompson, Ford Building, and E. L. Rice, 815 Market street, all of Wilmington, Del.

Bridge, over Brandywine River, Wilmington, Del. Engineer, B. H. Davis, 17 Battery Place, New York City. Owners, Washington Street Bridge Commission, care of Frederick W. Carpenter, Municipal Building, Wilmington, Del. Lowest bidders: Bush, Roberts & Schaeffer, New York City, $802,000; Snare & Triest, Philadelphia, $818,523.

(Continued from Page 68.)

coveted job, or, if he does, he'll not make much of a profit out of it over and above his accumulated expenses, especially if he secured the job because he happened to be the "fortunate lowest bidder." And, by-and-bye, his overhead account, constantly piling up, will swamp him.

A movement started several years ago in the East to secure payment for estimating has resulted in the organization of the National Contractors' Association, Inc., with a membership now estimated approximately at from 5,000 to 6,000. In Wisconsin there are a large number of contractors in many of the principal cities, such as Milwaukee, Madison, Sheboygan, Green Bay, Oshkosh, Racine, Janesville, etc., who have adopted the plan and who are charging for estimating and are being paid for the same. No self-respecting owner or architect will ask a competent contractor to devote his time and experience to the preparation of an estimate without expecting to reimburse him for his services. And no cautious owner will give as much as three whoops for the "estimate" of an incompetent bidder. He has the privilege of selecting his bidders, and if he must pay for estimating he will exercise that privilege, the result of which will be to eliminate a number of irresponsible bidders, thus placing on a more satisfactory and legitimate basis the entire process of receiving bids and letting of the contracts.; the performance of the work; the supervision of the same by the architect; the settlement of questions in dispute; the interpretation of plans and specificaions; the payment by the owner as the work progresses, and the final settlement of all accounts for labor and material furnished. Even when six or eight of the most competent and conscientious bidders have prepared their estimates upon the identical set of plans and specifications it is no hazard to assert that there will be a considerable difference between the highest and the lowest; and if in such case the contract is given to the lowest one the probability of his skinning the job wherever possible is little to be feared, and an owner who therefore is assured of good work and the lowest reasonable cost can well afford to pay for the cost of estimating, which, according to the established rates, will average less than one-tenth per cent. of the cost of the job.

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know of the danger, the annoyance, the certainty of getting poor work in spite of the most careful supervision, if the contract is let to some of the lowest bidders in cases where a large number of all kinds of more or less able contractors have been permitted to "put in" a bid. For that reason, if for none other, every reasonable architect is in favor of the payment for estimating, although some of them are slower than others in approving of the proposition. However, as the present prosperity wave will cause and necessitate an enormous amount of new building, and as contractors are unable with the scant supply of mechanics and laborers to take more than a limited amount of work, it would seem but natural that they would prefer to figure mainly with architects who favor the payment for estimating plan, and who are not afraid, for petty cash or selfish reasons, to tell the owner of the plan and also tell him that contractors cannot afford and do not care to bid on jobs on which they are not to be paid for estimating.—*Wisconsin Builders' Bulletin.*

* * *

LIABILITY OF ARCHITECT TO OWNER ON BUILDING PLANS

The question of the liability of the architect to the owner is one which has been threshed out in the courts from time to time but is nevertheless one of recurring litigation because no general rule has ever been laid down by the courts that will cover every specific case. About the only thing that has been universally and finally established is that the architect is human and his work can therefore only approximate perfection, however skillful or learned he may be; hence the owner cannot expect absolute perfection in either plans or specifications. Reviewing opinions of many courts regarding the liability of the architect to the owner a legal authority, writing for the *American Contractor,* says:

It is a general rule of law that the architect must employ reasonable skill and taste in his work. The term "reasonable," of course, being rather vague, but it is presumed to mean reasonable among his profession.

In a Nebraska case it was held that, as between the architect and the owner, no doubt the architect would be liable for any mistake in the plans and specifications which increased the cost of the building.

In New York it was held that the architect cannot recover anything where defects and omission run through the entire system of his plans, so that they are useless to contractors and builders.

In a Pennsylvania case, the referee took as a basis of ascertaining the value of the services of an architect, their value if they had been skilfully prepared and complete, and deducted from the amount what it would cost to complete the plans and remedy the defects.

This decision was reversed on appeal, the court saying:

"If the plans had simply been incomplete, requiring only the services of an ordinary draughtsman to perfect the details, the basis adopted by the refereee would not have been subject to just criticism. When an architect undertakes to prepare the plans for a large and expensive structure, he covenants not only that he is possessed of the requisite skill, but that skill shall be exercised in the work he had undertaken.

"If the product of his labor is a plan vitally defective, his employer might go on and erect a building enormously expensive which, from its foundation up, would be insecure.

"It is manifest that the value of a plan skillfully drawn furnishes no standard by which to ascertain the value of a plan containing such radical defects. A plan which, if carried into execution, would produce a building not self-supporting, can hardly be said to come up to what is expected of an architect.

"If the plan in question exhibited the skill which the nature of the employment demanded its value was to be estimated accordingly. If it was so defective as not to meet the requirements of the purpose for which it was intended, it might be utterly worthless. If the plaintiff was entitled to recover, the value of his services is to be determined by what he himself did, and not what some more careful man might have done."

In a New York case, the court said:

"It is as necessary that the architect should know what is needed to make steam heating apparatus serviceable as it is that he should know how sewer gas is to be kept out of the house. No one would contend that at this day an architect could shelter himself behind the plumber, and excuse his ignorance of the ordinary appliances for sanitary ventilation by saying that he was not expert in the trade of plumbing.

"He is an expert in carpentry, in cements, in mortar, in the strength of materials, in the are of constructing the walls, the floors, the staircases, the roofs, and is in duty bound to possess reasonable skill and knowledge as to all these things; and when, in the progress of civilization, new conveniences are introduced into our homes, and become, not curious novelties, but the customary means of securing the comfort of the unpretentious citizen, why should not the architect be expected to possess the technical learning respecting them that is exacted of him with respect to other and older branches of his professional studies?"

It must be kept in mind, however, that the duty of the architect, with reference to a certain engagement, is limited by the contract which he has entered into with the owner. The law cannot impose a liability even as to skill and knowledge, which is not contemplated by the contract. And where certain specifications are set out in the contract, tending to point out the measure of the architect's duty, it will be construed by the courts to mean a reasonable skill in the particulars mentions and nothing greater.

It is further a general rule of law that an architect is not duty bound to keep secret the plans for a given building, unless he has specifically contracted to do so. But where an architect is engaged to prepare plans for a given building and he, as is generally customary, gives out the fact to the newspapers, he has violated no duty at law which will render him liable in an action for damages, even though the disclosure of the secret may be decidedly injurious to his employer.

It is also true that the architect cannot be held responsible, in an action for damages, for injuries or losses sustained which are the result of the owner's own fault.

For instance, in a given case, the city ordinance prohibited buildings placed nearer the street line than a certain distance. The architect informed the owner of this provision in the ordinances. The owner, however, wanted the building placed on the line and then decided to have it built with windows which projected over, nearer the street than allowed by the ordinance.

The city promptly sued the owner for damages and also obtained an injunction against him, making him tear out the windows and build them in accordance with the statute.

The owner then attempted to recover damages from the architect, but the court disallowed the claim, saying that the architect could never be held responsible for the losses sustained by the owner which were the result of his own fault. The architect had drawn the plans correctly in the first instance and he had warned the owner of the existence of the ordinance. Hence, his hands were clean of the matter.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

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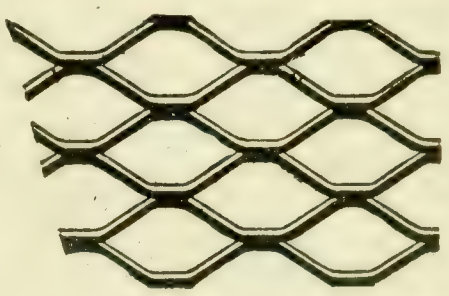
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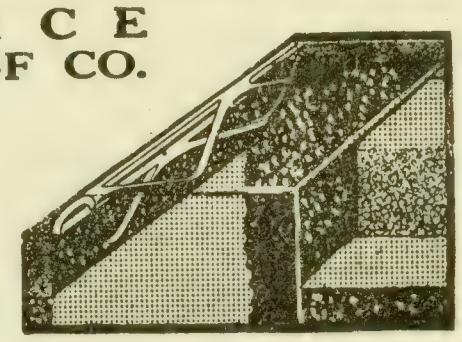
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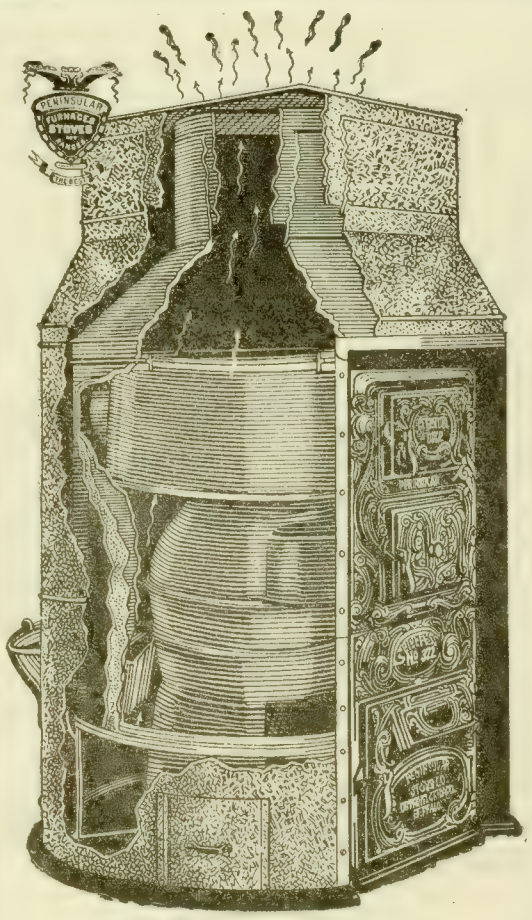
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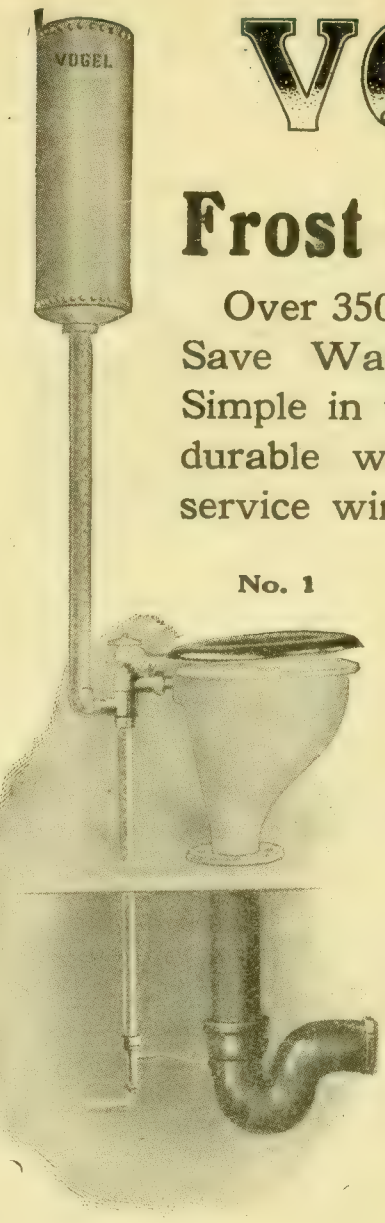
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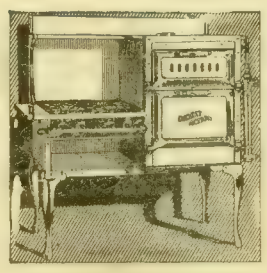
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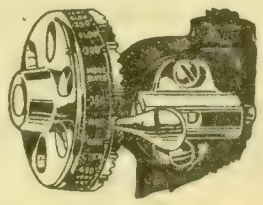






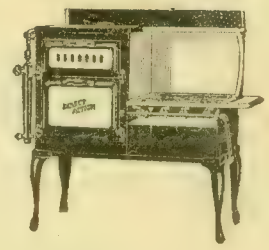
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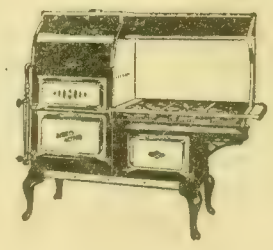
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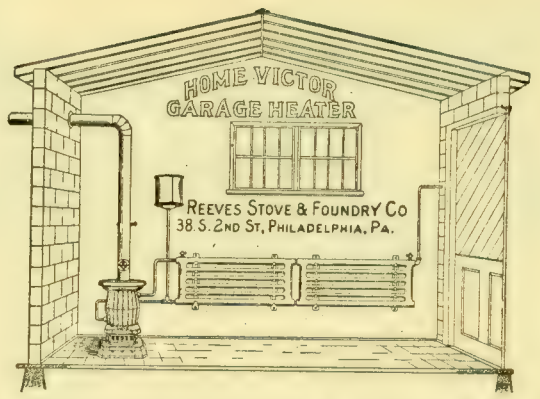
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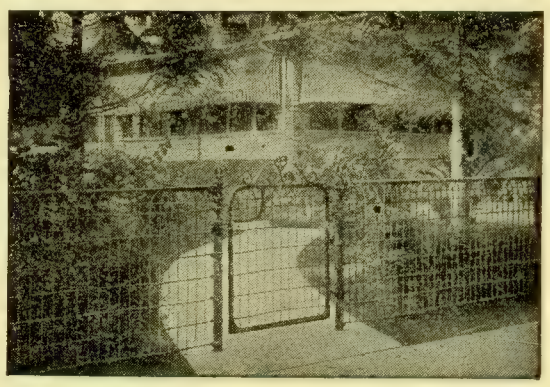
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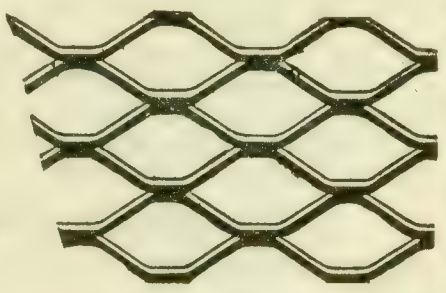
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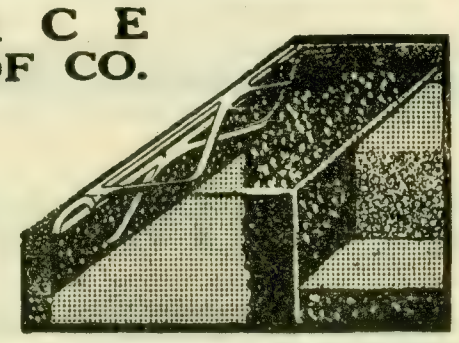
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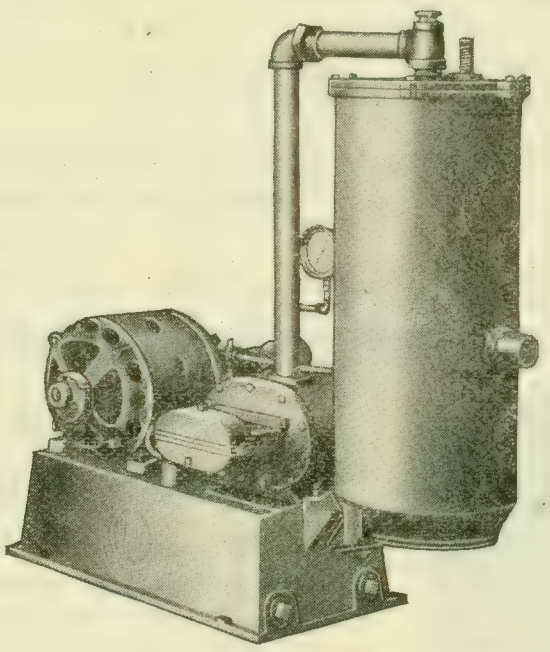
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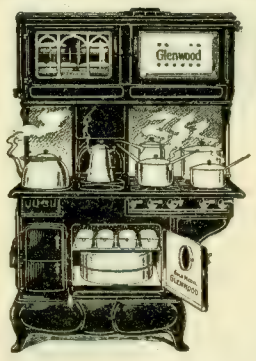
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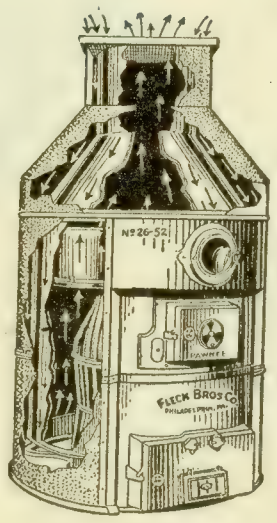


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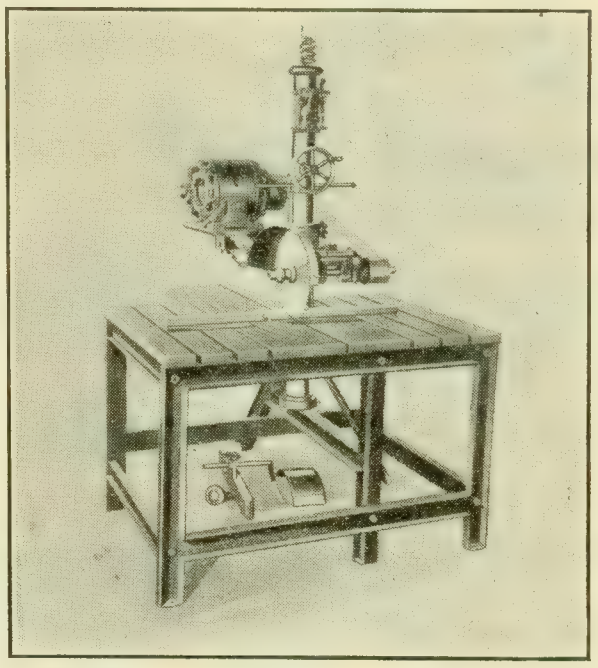
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VOLUME XXXV
Number 5

PHILADELPHIA
February 4, 1920

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As The Editor Sees It

JOHN IRWIN BRIGHT, Chairman of the Committee on Community Planning, American Institute of Architects, finds the Senate Report of the U. S. Housing Corporation inaccurate and audacious. The report accusing the Housing Corporation of lack of speed is ludicrous when the delays of over a year caused by Congress talking about houses before making provision to build them are so fresh in our minds.

"The United States Housing Corporation," writes Mr. Bright, has been severely arraigned by an investigating committee of the United States Senate in its report of December 16, 1919.

The corporation is a government agency created for the purpose of providing houses for workmen engaged in war work and an appropriation of $100,000,000 was placed at its disposal.

It might be well to state at the commencement of these remarks that for many weary months after we had definitely cast our lot with the Allies, Congress could not be brought to believe that good housing could favorably influence industrial production. This conviction remained with it in spite of all evidence to the contrary. The far-seeing enterprise of the American Institute of Architects in exhaustively collating and publishing the result of England's experience on these lines had no perceptible reaction on the minds of our congressmen.

War was declared on Germany on April 6, 1917, and it was not until July 25, 1918, that the Housing Corporation was legally permitted to disburse funds. Fifteen and one-half solid months devoted to "talking it over."

In the face of its own record the Senate now passionately accused the Housing Corporation of lack of speed. The audacity of these tactics almost compels respect.

The report omits to say that while awaiting governmental authority, Mr. Eidlitz, later the president of the Housing Corporation, and several architects made themselves financially responsible for very large sums of money in the preparation of the task that they felt sure, sooner or later, had to be undertaken. It is easy to see that the creditable action of these men could not be noticed by the Senate without considerable embarrassment to itself, and therefore, the very interesting prenatal history of the Housing Corporation is passed over in silence.

The report, in so far as it assails the policy and the personnel of the Corporation, is of little interest. Most of the accusations deal with inefficiency and faults of judgment, characteristics of all our other war organizations improvised over night. Small wonder that the machine creaked and groaned.

It would be quite fruitless to review the senatorial report for the purpose of pointing out its errors, but, without wishing to be controversial, there can be brought into relief several misstatements of the investigators of a magnitude which renders questionable all of their conclusions.

It is asserted that if work on the 649 government dwellings in Philadelphia had ceased on armistice day the loss would have been only $425,000, but as they were completed and are now occupied the loss has been $1,500,000. The first half of this statement is possibly true, but the claim of a $1,500,000 loss is based upon a guess, not an appraisal, and is grossly inaccurate. It is a matter of lommon knowledge that not only houses of this description cannot be built in Philadelphia today below the price which the senators say these houses cost, but that each and every one can readily be sold for a figure above this price whenever the government chooses to relinquish control. Under these conditions the arithmetical deductions of the committee are not intelligible.

The architects on this project received for their total remuneration less than seven-tenths of 1 per cent. of the cost of construction. This fact could easily have been ascertained by the committee before writing its ill-informed remarks on architectural fees.

The allowance to the architects in general of 100 per cent. of drafting expense

(Continued on Page 102.)

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Church and School, Richmond and Venango streets, Philadelphia. Architect, Charles H. Schaef, Penfield Building, Philadelphia. Owners, St. George's Roman Catholic Church, care of Rev. Ignatius Zinblys, on premises. Brick, 3 stories, 52x110 feet, slate roof, hardwood floors, steam heating, electric lighting, stone foundations, slate work, mill work, sliding doors. Architect will be ready for sub-bids February 29th.

Building, Thirty-fourth and Chestnut streets, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Universal Motor Co. Agency, 3438 Ludlow street. Brick and concrete, 2 stories, 75x215 feet, 4 ply asbestos asphalt roof, cement, tile and maple floors, marble work, metal lath, fire doors, iron work, stone foundations (heating, plumbing and electric work reserved). Architect taking bids due February 11th. J. Sims Wilson Co., 1125 Brown street; William R. Graham, 3649 Filbert street; J. M. Yardley, 1716 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine street; Lam Building Co., 1001 Wood street; Mitchell Bros., 2125 Race street; A. R. Raff Cont. Co., 1635 Thompson street; J. D. Fisher, 5414 Thompson street; Potts Bros. & Cooperson, 129 North Eleventh street, are figuring.

Office Building (add.), 1603-05 Walnut street. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, Wallace Simpson, on premises. Brick, steel, stone and concrete, 15 stories, 120x40 feet, slag roof, concrete floors, hollow tile, metal lath, elevators, steam heating, electric lighting. Architect is taking sub-bids.

Stores and Apartments (8), Fifty-second and Chester avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, stone, 3 stories, 19x65 feet, slag roof, oak floors, metal lath, stone foundations, hot water heat, electric light, tile and marble work, flush bulks. Plans in progress.

Residences (18), Duncannon and Hutchinson streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick and stone, 2 stories, 16x45 feet, slag roof, oak floors, stone foundations, hot water heat, electric light, tile and marble work. Plans in progress. Will be ready for sub-bids in one week.

Residence and Garage, Eighth and Chelten avenue, Oak Lane. Architects, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, Robert Bell, care of architect. Stone, 2½ stories, 26x39 feet and 25x23 feet, shingle roof, hot water heating, electric lighting, oak floors, cement work. Architects taking bids due as soon as possible. C. N. Rocholl, 217 Northeast Boulevard; J. F. Carberry, 1974 Medary street; C. E. Lloyd, Jr., 6600 North Eighth street; Jacob Wendling, 5709 Kingsessing avenue; I. K. Davis Co., 6100 North Twentieth street; Mackle McClelland Co., Drexel Building; Bowden Const. Co., 1713 Sansom street, are figuring.

Warehouse, Oxford pike and Griscom street, Frankford. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Hub Furniture Co., 4734 Frankford avenue, Philadelphia. Brick, 4 stories, 50x60 feet, slag roof, plank and pine floors, (1) elevator, steam heating, electric lighting, stone foundations, hollow metal sash and skylights, mill construction. Architects taking bids due February 10th. John N. Gill & Co., Otis Building; Rush Bros., 1016 Harrison street; Mackle-McClelland Co., Drexel Building; Thomas C. Trafford, 1613 Sansom street, and A. W. Shirreff, 427 Walnut street, are figuring.

Warehouse (alts. and add.), 716-18 South Eleventh street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Ace Metal Co., on premises. General alterations and additions. Plans in progress. Too early for details.

Garage and Service Building, Broad and Belfield avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Crosstown Realty Co., on premises. Brick, steel, concrete and terra cotta, 1 story, 36x115 feet and 92x110 feet, slag roof, cement and pine floors, stone foundations, marble work, hollow metal sash, iron work (heating, electric work, plumbing and elevator reserved). Architects taking bids due February 7th. E. E. Hollenback, Inc., 1804 Brandywine street; George Kessler Cont. Co., Drexel Building; Lam Building Co., 1001 Wood street; William R. Dougherty, 1610 Sansom street; Albert Zellfelder, 151 South Broad street, and Thomas C. Trafford, 1613 Sansom street, are figuring.

Factory, Eighteenth and Courtland streets, Philadelphia. Architects, William Steele & Sons Co., Sixteenth and Arch streets, Philadelphia. Owners, Friedburger Aaron Mfg. Co., Eighteenth and Courtland streets. Brick, concrete and steel, 3 stories, 74x103 feet, slag roof, cement and maple floors, metal lath, safety treads, roof ventilators, metal weather strip, kinnear steel rolled, kalamein and hollow metal doors, iron work, stone foundations (heating and electric work reserved). William Steele & Sons Co., Sixteenth and Arch streets, are taking sub-bids.

Residences and Garages (alts.), 4224-26 Baltimore avenue. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Roach & Williams, Real Estate Trust Building, Philadelphia. Brick, 3 stories, hardwood floors, fire tower, 3 stories, 10x12 feet, new porches, plastering, steam heat, electric light, tile and marble work, changing partitions, changing gymnasium building in rear to garage. Plans completed. Owners ready for bids.

Tank Tower, 1430 Callowhill street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, A. E. Ford, 1430 Callowhill street, Philadelphia. Architect has received bids.

Club House, Front and Erie avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Hess Bright Mfg. Co., on premises. Brick and reinforced concrete, 1 story and basement, 68x150 feet, cafeteria and kitchen equipment, cement and hardwood floors, steam heating, electric lighting, plumbing. Architect is taking sub-bids.

Building (alts.), Twelfth and Chestnut streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Commonwealth Trust Company, Twelfth and Chestnut streets. Hollow tile, plaster, painting, plumbing, repairing electric work. Architect taking bids due as soon as possible. H. H. Burrell, 206 South Quince street, is figuring.

Hotel, Second and Walnut streets, Philadelphia. Architects selected, Ballinger & Perrot, Seventeenth and Arch streets. Owners, Seamen's Church Institute of Philadelphia, care of Rev. Percy R. Stockman, 916 Swanson street, Philadelphia. Preliminary plans in progress. Will contain cafeteria, bank, auditorium, post office, etc. Modern in every respect.

Residence (alts.), 3924 Walnut street, Philadelphia. Architect, David B. Bassett, Perry Building, Philadelphia. Owner, John Miller, on premises. New porches, bay window, brick work and interior alterations. Architect taking bids due February 6th. Lam Building Co., 1001 Wood street; Frank G. Stewart, 1619 Sansom street, and Fred Broome, 4003 Sansom street, are figuring.

Store Building (alts.), Eighth and Chestnut streets, Philadelphia. Architect, E. P. Clark, 1239 Broadway, New York City. Owner, Regal Shoe Co., Eighth and Chestnut streets. New front, painting, plumbing, plastering, tile work, mill work, carpentry. Architect has received bids.

Factory, S. Twenty-second st., Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, name withheld. Brick, slow burning construction, 40x125 feet, slag roof, pine floors, stone foundations, steam heat, electric lighting. Plans in progress. Will be ready for bids in about two weeks.

Office Building (alts.), Southwest Corner Third and Chestnut streets. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Hare & Chase, 309 Walnut street, Philadelphia. Composition floors, plumbing, iron work, roof repairs, plastering, painting, glazing and carpentry. Architects taking bids due February 9th at 11 A. M. F. B. Davis, 240 North Sixteenth street; William R. Dougherty, 1610 Sansom street; Penn Eng. & Const. Co., Bulletin Building; J. Sims Wilson Co., 1125 Brown street; Pomeroy Const. Co., 1609 Ranstead street, and F. A. Havens



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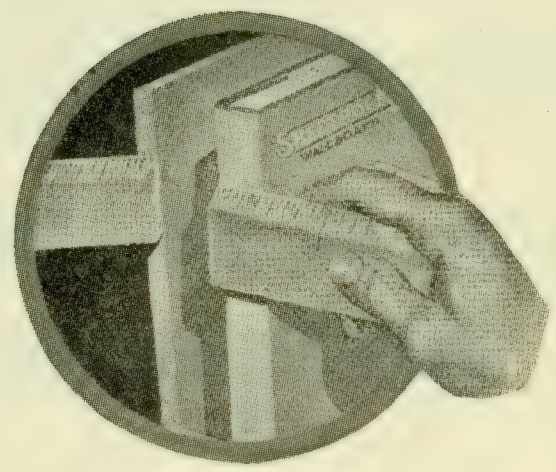
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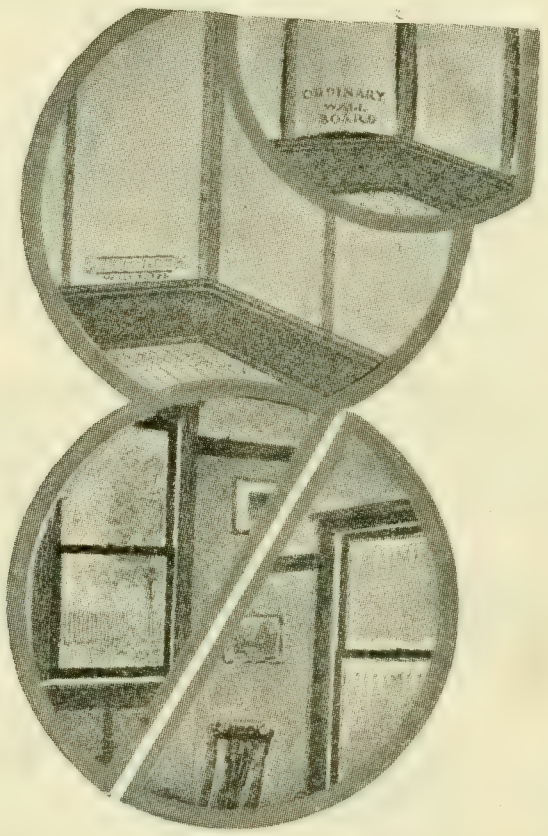


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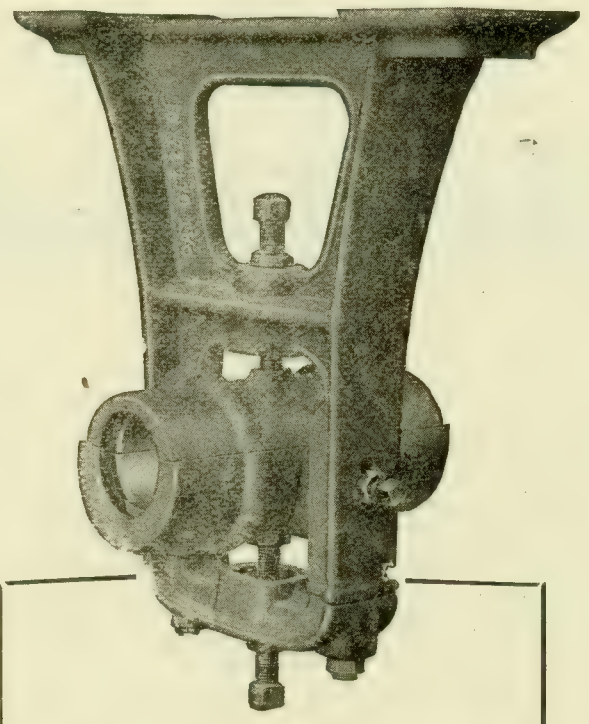
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& Co, 845 North Nineteenth street, are figuring.

Warehouse, 1308-10-12-14 North Third street, $12,000. Architect, private plans. Owner, Howard F. Grove, 1306 North Third street, Philadelphia. Brick, 2 stories, 71x202 feet, slag roof, electric light, cement floors. Owner will build.

Building (alts. and add.), 106 North Second street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, David A. Shapiro, 924 South Fifty-ninth street, Philadelphia. Brick and steel, 2 story add., 19x46 feet, slag roof, pine floors, metal lath, roof ventilators, dampproofing, iron work, hollow metal skylights, electric lighting, stone foundations (heat reserved). Architect taking bids due February 5th at 10 A. M. Smith-Hardican Co., 1606 Cherry street; E. F. Bahls Co., 1617 North Park avenue; F. A. Havens & Co., 845 North Nineteenth street, and Kober Const. Co., Liberty Building, are figuring.

School (alts.), Germantown avenue and Coulter street, Philadelphia. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owner, Germantown Friends' School, on premises. Steel work, plastering, metal ceilings, rolled steel sash, carpentry, painting, glazing. Architects taking bids due February 10th. R. C. Ballinger & Co., 218 North Thirteenth street, and William J. Gruhler & Co., 219 High street, are figuring.

Residences (4), Olney, Philadelphia. Architect, William H. Wooters, Godfrey and G streets. Owner, name withheld. Brick, 2 stories, 16x50 feet, slag roof, oak floors, hot water heating, stone foundations, electric lighting, tile work. Plans in progress. Will be ready for sub-bids in about two weeks.

Garage, Coulter street, Germantown. Architects, Hawley & Hawley, Midvale avenue and Stokley street. Owner, Frank H. Burpee, 1814 Venango street. Brick and rough cast, 1½ stories, 25x19 feet, maple and cement floors, stone foundations, electric lighting. Plans in progress.

Residence and Garage, Wynnefield, Philadelphia. Architects, Hawley & Hawley, Midvale avenue and Stokley street. Owner, name withheld. Brick and rough cast, 2½ stories, 27x60 feet and 18x22 feet, slate roof, oak and cement floors, stone foundations, hot water heating, electric lighting, tile work. Plans in progress.

Store and Office Building, Southeast Corner Fifty-second and Chestnut streets. Architects, Hoffman Henon Co., Inc., Finance Building, Philadelphia. Brick, 2 stories, 40x117 feet, slag roof. Architects taking bids due February 5th. Ketcham & McQuade, 1029 Brown street; P. M. Sax, Franklin Bank Building; Keystone State Const. Co., Franklin Bank Building; John R. Wiggins & Co., Otis Building, and Frank G. Stewart, 1619 Sansom street, are figuring.

Factory, Wissahickon and Hunting Park avenue, Philadelphia. Architect, LeRoy K. Rothschild, 1225 Sansom street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, concrete and steel. Plans in progress. Too early for details.

Store (alts.), 4448 Frankford avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Henry Stein, on premises. General alterations. Plans in progress.

Residence (alts.), 154 East Mt. Airy avenue, Germantown. Architects, Hawley & Hawley, Midvale avenue and Stokley street. Owner, Mrs. James F. Taylor, on premises. Brick, electric lighting, plastering, parquetry floors, plumbing. Architects taking sub-bids.

Residence (alts.), 5005 Chestnut street, Philadelphia. Architect, LeRoy L. Rothschild, 1225 Sansom street, Philadelphia. Owner, J.

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L. Lipschutz, 5005 Chestnut street, Philadelphia. Repairing roof, iron work, plastering, painting, glazing, changing heating, tile work, electric work. Architect taking bids due February 4th. Hogg Const. Co., Denckla Building; D. Henwood, 717 South Sixty-third street; Albert Zellfelder, 151 South Broad street; George Taylor, 1005 Wood street, and Conneen Const. Co., 10 South Eighteenth street, are figuring.

Store and Residence, 1539 South street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, A. Lowenthal, on premises. Interior alterations, new plumbing, hot water heating, electric work. Architect will be ready for bids in a week.

Building (alts.), 1335-37-39 Erie avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Frank C. Snedaker, Ninth and Tioga streets. Steel and brick, stone foundations, tile work, slag and tile roof, carpentry, plastering, painting, glazing, plumbing, metal ceilings. Owner taking bids due February 4th. Thomas C. Trafford, 1613 Sansom street, is figuring.

Residences (19), (17) Roosevelt Blvd., east of A street, (1) Roosevelt Blvd. and Courtland street, and (1) Seventh and Roosevelt Blvd., $179,000. Architect, private plans. Owner, Louis Mark, 2820 North Twenty-first street, Philadelphia. (15) Brick, 2 stories, 16x38 feet, 13x17 feet; (2) Brick and stone, 2 stories, 16x56 feet; (2) Brick and stone, 3 stories, 32x38 feet and 32x40 feet, hot water heating, electric lighting. Owner will build.

Residences (2), 422-24 South Carlisle street, Philadelphia, $8,000. Architect, Mahlon H. Dickinson, 1705 Chestnut street, Philadelphia. Owner, A. Edward Newton, Nineteenth and Hamilton streets, Philadelphia. Brick work and renovating, hollow metal skylights, painting, papering, carpentry millwork, galvanized iron work. Architect has sub-let.

Store (alts.), 712-14 Sansom street, Philadelphia. Architects, Greisler Abramson Co., Lafayette Building, Philadelphia. Owners, Aisenstein & Gordon, 712 Sansom street, Philadelphia. General interior alterations, steam heating, electric work, tile and marble work, electric elevators. Architects will be ready for bids in ten days.

Manufacturing Building, southwest corner of Tenth and Pearl streets, $22,000. Architects, Franklin & Co., 906 Crozer Building, Philadelphia. Owners, Jarden Lithograph Co., on premises. Brick, 2 stories, 38x53 feet, slag roof, steam heating, electric lighting. Engineers and architects taking bids, due February 10th. F. L. Hoover & Son, 1023 Cherry street; Barclay White & Co., 1713 Sansom street; J. M. Yardley, 1716 Sansom street; Frank I. Wintz, 1618 North Twenty-fourth street; H. E. Baton, 1713 Sansom street, and R. J. Whiteside & Son, 2115 Wallace street, are figuring.

Paving, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, Department of Public Works, John C. Winston, Director, Room 232, City Hall, Philadelphia. Asphalt paving, redressed granite block, wood block, curb and footway work, country roads. Owners ready for bids, due February 10th at noon.

Y. W. C. A. Buildings, (3) Philadelphia, (1) Asbury Park, N. J. Architect, Chas. A. Ziegler, Bailey Building, Philadelphia. Owners, Y. W. C. A., Eighteenth and Arch streets, Philadelphia. Work contemplated.

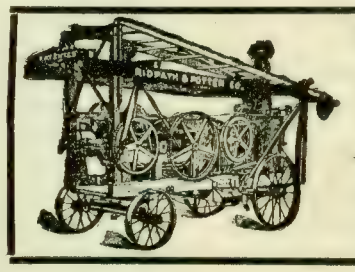
Industrial Plant, near Philadelphia. Architect, Chas. A. Ziegler, Bailey Building, Philadelphia. Owner's name withheld. Manufacturing plant and employees' residences. Pre-



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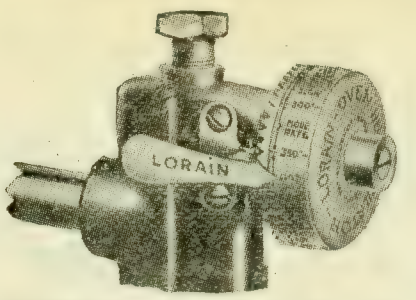
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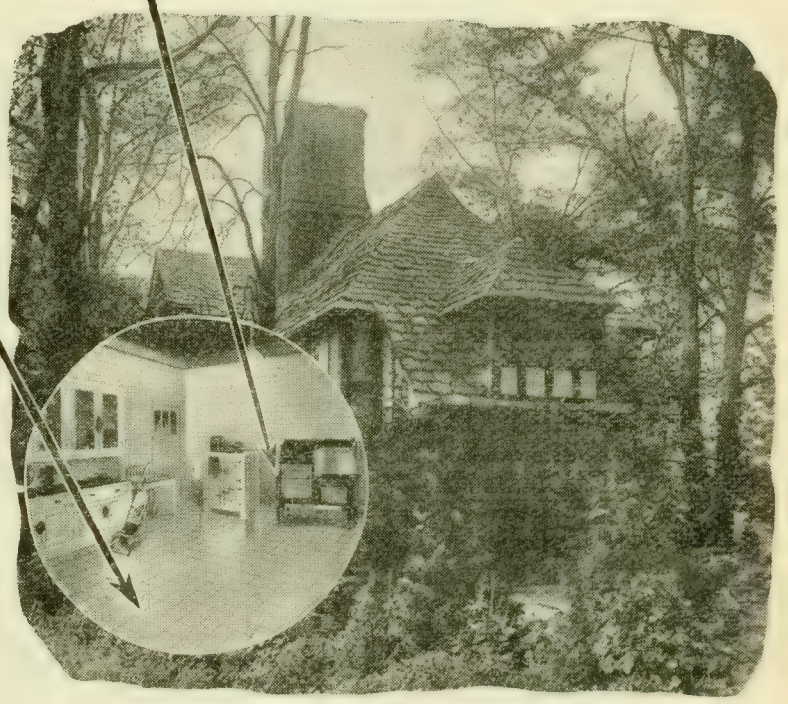
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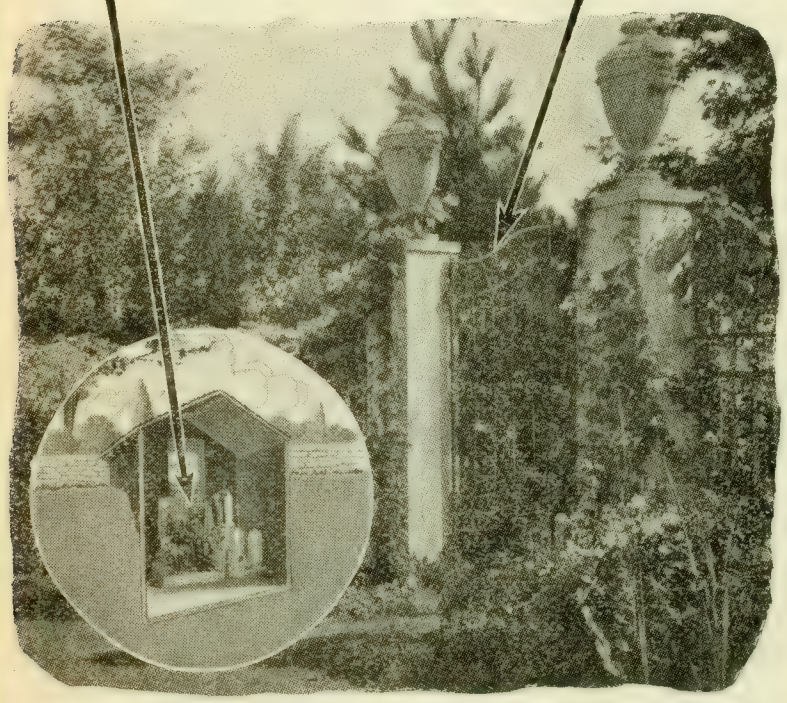
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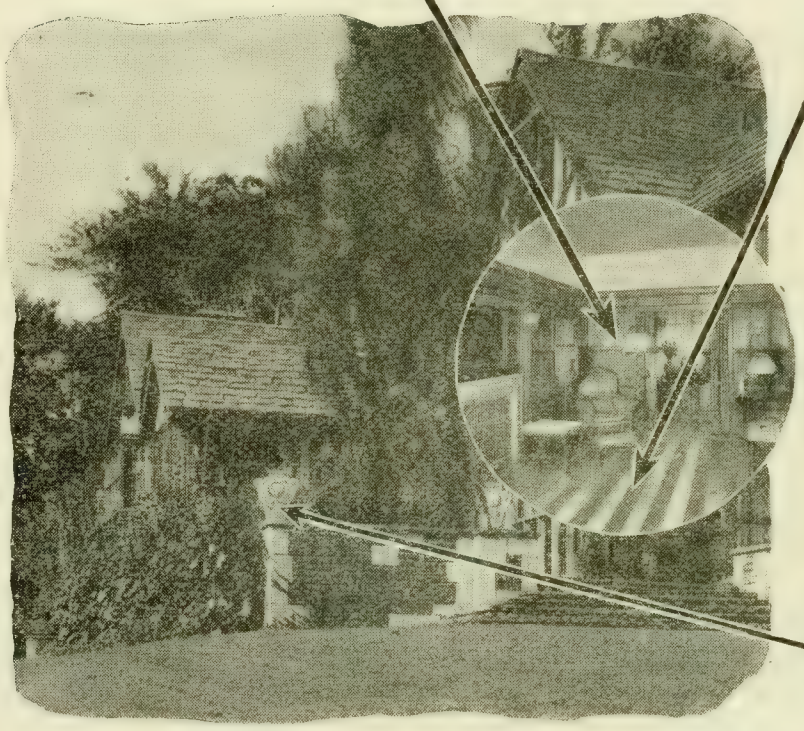
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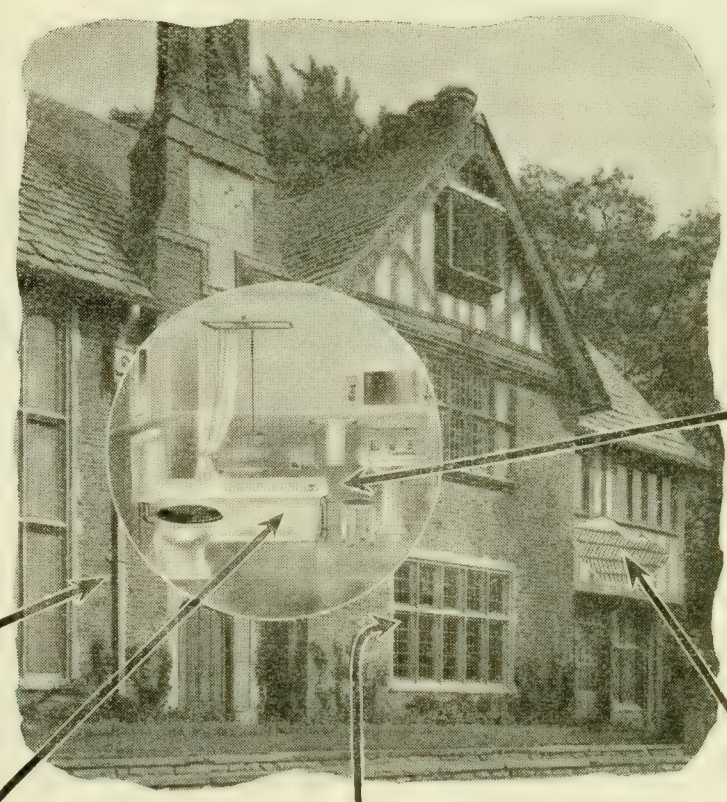


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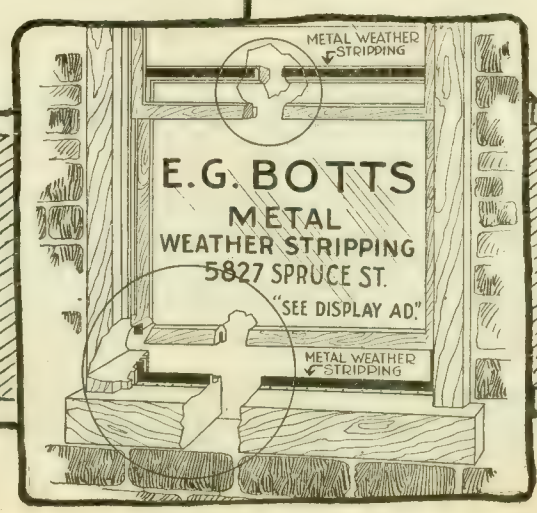


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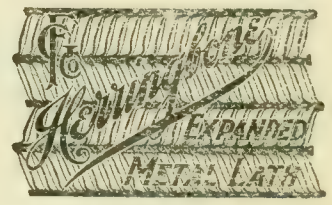
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liminary sketches drawn. Plans in progress. Will take bids in about three months.

Contracts Awarded

Building (alts.), 1419 North Broad street, Philadelphia. Architect, LeRoy K. Rothschild, 1225 Sansom street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, cut stone, 2 stories, 160x21 feet, slag roof, maple floors, stone foundations, steam heat, electric light, tile work, metal ceiling. Contract awarded to Hogg Const. Co., Denckla Building.

Store (alts. and add.), 1235 Market street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Benamin Bauer & Son, 2 North Thirteenth street, Philadelphia. New store front, interior alterations. Contract awarded to Frank Rieder & Son, 343 North Fourth street.

Store (alts.), Third and Market streets, Philadelphia. Architect, Greisler Abramson Co., Lafayette Building, Philadelphia. Owner, Post Cigar Co., on premises. Alterations to first floor, steam heating, electric light, tile and marble work, flush bulks. Contract awarded to F. B. Davis, 240 North Sixteenth street, Philadelphia.

Garage, southwest corner Twenty-fifth and Panama streets, Philadelphia, $4,000. Architect, private plans. Owner, William J. Barr, Northeast Corner Twenty-fourth and Spruce streets. Brick, 1 story, 44x30 feet and 49x30 feet, slag roof, cement floor, electric lighting. Contract awarded to Robert J. Makin, 1615 Chestnut street, Philadelphia.

Building (alts.), 713 Sansom street, Philadelphia. Architects, Greisler & Abramson, Lafayette Building, Philadelphia. Owners, Lashof & Silberman, 707 Sansom street, Philadelphia. Brick and steel, composition floors, metal lath, heating repairs, electric light, tile and marble work, iron work, plastering, plumbing, glazing, painting, mill work. Contract awarded to Robbins Cont. Co., 1137 North Front street, Philadelphia.

Building (alts.), Fifty-second and Market streets, Philadelphia, $8,000. Architect, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Schulte Cigar Co., 216 South Broad street, Philadelphia. Plumbing, cement work, plastering, electric work, tile work, steel work, mill work, carpentry, pine floors. Contract awarded to Pierce Henon Co., Bulletin Building, Philadelphia.

Temporary Engine Room, 3043 Chestnut street, $3,500. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets. Iron or iron, 1 story, 25x37 feet. Contract awarded to Drehman Paving Co., 2622 Parrish street.

Store and Dwelling (alts.), Southeast Corner Redfield and Market streets, $3,000. Architect, private plans. Owner, Dr. F. Ryan, 5908 Market street, Philadelphia. General alterations to store and garage. Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

Garage (alts.), Southeast Corner Juniper and Cherry streets, $10,000. Architect, private plans. Owner, Sweeten Automobile Co., 3430 Chestnut street, Philadelphia. New windows, metal ceilings, electric lighting. Contract awarded to Leroy K. Smith, Forty-first and Chester avenue.

Storage, 3322 Amber street, Philadelphia, $8,000. Architect, private plans. Owner, R. E. Tongue & Bro. Co., Amber street and Al-

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legheny avenue Brick, 1 story, 66x75½ feet. Contract awarded to Robert Beatty & Bro., 2321 East Fletcher street.

Store and Dwelling (add. and alt.), 115 North Fifteenth street, $3,500. Architect, private plans. Owner, Harry Valene, on premises. Brick, 1 story add., 15 feet 8 inches x41 feet, flush bulk, general alterations. Contract awarded to V. De Dominicus, 3434 Lancaster avenue, Philadelphia.

Factory, Northwest Corner Blabon street and P. and R. Ry., $25,000. Architect, private plans Owners, Geo. W. Blabon Co., Nicetown, Philadelphia. Brick, 1 story, 42x54 feet, slag roof, electric light, cement floors. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Residence and Store (add.), 19 North Sixtieth street, Philadelphia, $10,850. Architect, private plans. Owner, Joseph Sangman, on premises. Brick, 2 stories, 16x8 feet, 12½x 12½ feet, 1 story, 3x30 feet, and third story, 16x32 feet, 12½x43 feet, electric light, slag roof. Contract awarded to Kaplan & Greenstein Co., 717 Walnut street.

Residences and Stores (5) (add.), 13-15-17-21-23 North Sixtieth street, $10,850 each. Architect, private plans. Owner, J. Marmon, et al., Northeast Corner Fifth and Chestnut streets. Brick, 2 stories, 16x8 feet, 12½x12½ feet, 1 story, 3x30 feet, and third story, 16x32 feet, 12½x43 feet, slag roof, electric lighting. Contract awarded to Kaplan & Greenstein Co., 717 Walnut street.

Store and Dwelling (alts.), 1010 Girard avenue, Philadelphia, $3,860. Architect, private plans. Owner, Samuel Cooper, on premises. New flush bulks, plate glass, electric lighting. Contract awarded to Davis & Clayton, 1817 North Twentieth street, Philadelphia.

Church (alts.-, 616 South Broad street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, St. Mary's Protestant Episcopal Church, on premises. Demolition of building, iron fencing, cement work, plastering. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Store and Dwelling (alts. and add.), 256 North Fifty-second street, $5,200. Architect, private plans. Owner, J. Tyer, 5201 Haverford avenue, Philadelphia. Brick, 2 stories, 16x15½ feet, slag roof, electric lighting. Contract awarded to H. Slovitt, 6143 Osage avenue, Philadelphia.

Factory (alts.), 1613-15 McKean street, Philadelphia, $5,500. Architect, private plans. Owner, Dental Co. of Phila., 1619 McKean street, Philadelphia. General alterations. Contract awarded to Joseph Walls, 1916 South Fifteenth street, Philadelphia.

Factory (alts.), 2712 Lefevre street, Philadelphia, $6,500. Architect, private plans. Onwers, the Sanitary Products Co., 2710 Lefevre street, Philadelphia. General alterations. Contract awarded to the Surety Structural Service Co., 2710 Lefevre street, Philadelphia.

Store and Dwelling, Nineteenth and Fitzwater streets, $3,000. Architect, private plans. Owner, Silas King, on premises. General alterations, flush bulks. Contract awarded to David Sokolow, 3123 Euclid avenue, Philadelphia.

Garage, 4948 Griscom street, Philadelphia, $2,000. Architect, private plans. Owner, Mary Hub, 4862 North Broad street, Philadelphia. Brick, 1 story, 20x50 feet, slag roof, cement floor. Contract awarded to George Himer, 4842 Hawthorne street, Philadelphia.

Pennsylvania Construction News

Residence and Garage, Merion, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner's name withheld. Hollow tile and stucco, 2½ stories, 30x50 feet and 20x20 feet, slate roof, oak and cement floors, hot water heat, electric light, tile and marble work. Plans in progress.

Club Buildings, Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner's name withheld. Brick, frame and stucco, swimming pool. Plans in progress. Too early for details. Will be ready for bids in a month.

Ice Plant (Tank Room, Engine Room and Ante Room), Chester, Pa. Architects, Wm. F. Koelle & Co., Twenty-sixth and Oxford sts., Philadelphia. Owners, Chester Crystal Ice Co., Chester, Pa. Brick, 1 story, 189x120 feet, slag roof, wood roof, concrete floors, concrete foundation, millwork, insulated doors, insulation, plumbing (electric work reserved). Contract awarded to Wm. F. Koelle & Co., Twenty-sixth and Oxford streets, who are taking sub-bids.

Residence, Swarthmore, Pa. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Walter J. Smith, 1603 South Frazier street, Philadelphia. Frame and stucco, 2 stories, 28x38 feet, shingle roof, parquetry floors, vapor heating, electric lighting, tile work. Plans in progress. Will be ready for bids in one week.

Chapel, Allentown, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Elizabeth's P. E. Church, Allentown, Pa. Stone and stucco, 1 story, 42x60 feet, slate roof, steam heating. Plans in progress. Will be ready for bids in about three weeks.

Residences (2), Haverford, Pa. Architects, Hawley & Hawley, Midvale avenue and Stokley street. Owner's name withheld. Brick and rough cast, 2½ stories, 25x60 feet, slate roof, oak floors, stone foundation, hot water heating, electric lighting, tile work. Plans in progress.

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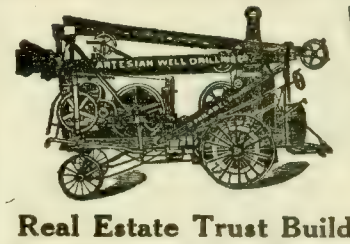
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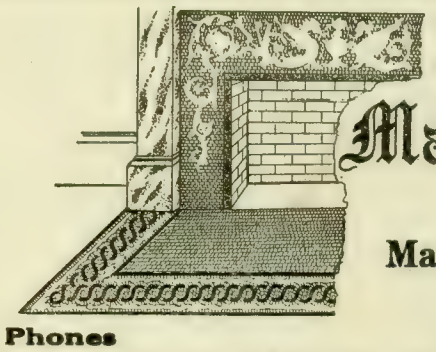
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Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, North Hills Country Club, Edge Hill, Pa. Stone and frame, 2 stories, 36x78 feet, wing 21x44 feet, electric lighting. Plans in progress. Too early for details.

Residence, Reading, Pa., $60,000. Architect, H. Mauer, 234 North Fifth street, Reading, Pa. Owner's name withheld. Stone, 3 stories. Too early for details.

Apartment, Reading, Pa. Architect, H. Mauer, 234 North Fifth street, Read,ngi Pa. Owner's name withheld. Brick, reinforced steel, 6 stories, 30x150 feet. Preliminary plans in progress.

Bank, Ninth and Spring streets, Reading, Pa. Architect, H. Mauer, Mt. Penn, Reading, Pa. Owners, Northeast Trust Co., care of architect. Stone and brick, 3 stories, 40x90 feet, stone foundations, marble and wood floors, electric light, tile and terrazzo work, hollow metal skylights, bank fixtures, vault, roof ventilators, metal window guards, ornamental iron work. Architect will take bids in two weeks.

Residences (4), West Reading, Pa. Architect, E. Z. Scholl, 136 Robinson street, Reading, Pa. Owner, Mr. Ed. Ruth, Sixth and Penn streets, Reading, Pa. Brick, 2½ stories, stone foundations, slate roof wood floors, hot water heat, electric light. Architect will take bids in two weeks.

Residence, Reading and Wyomissing streets, Reading, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owner, David Robinovitch, Reading Boulevard, Reading, Pa. Stone, 3 stories, 82x45 feet, porches, stone foundation, slate and tin roof, hardwood and concrete floors, hot water heat, electric light, tile work. Architect taking bids, due February 4th. Beard Const. Co., D. Hunter, R. Randerbush, C. H. Schlegel, and L. H. Focht & Sons, Reading, Pa., are figuring.

Garage, Reading and Wyomissing Blvd., Reading, Pa. Architect, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owner, David Rabinovitch, Reading Blvd., Reading, Pa. Stone, 1½ stories, 20x26 feet, slate roof, concrete floors, hot water heat, electric light. Architect taking bids, due February 4th. Same bidders as on above residence.

Factory, West street, Reading, Pa. Architect, G. S. Gerhard, 619 Penn street, Reading, Pa. Owners, F. Y. Kitzmiller Co., 426 Penn street, Reading, Pa. Mill construction, 4 stories, 133x49 feet, composition roof, wood floors, electric light, elevators. Architect taking sub-bids.

Residence (alts.), Ogontz, Pa. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Harry H. Snellenburg, Ogontz, Pa. General interior and exterior alterations. Plans in progress. Too early for details.

Residence and Garage, Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, E. J. Hedden, Finance Building, Philadelphia. Stone, 2½ stories, 45x65 feet and 22x24 feet, shingle roof, hardwood floors, vapor heating, electric lighting, tile and marble work, stone foundations. Owner is taking sub-bids.

Garage, northeast corner of Delaware avenue and Third street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Rex Garage and Supply Co., care of L. Shuttle, Harrisburg. Reinforced concrete and steel, 2 stories, 100x200 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash, elevators, gasoline storage system. Plans in progress.

Factory, Chambersburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Morehead Knitting Co., care of architect. Reinforced concrete and brick, 1 story, 60x103 feet, steam heat, electric light, rolled steel sash and skylights, fire doors, composition roof, concrete floors. Architect taking bids, due February 4th. C. Strayer, Lemoyne, Pa., and Central Const. Co., Harrisburg, Pa., are figuring.

Club House (alts.), Second street, Harrisburg Pa. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owners, Republican Club, care of J. C. Coover, on premises. General interior alterations, tile walls, tile floors, plumbing, kitchen equipment, hollow metal skylights. Plans in progress.

House (alts. and add.), to Stores and Apartments, Sixth and Emerald streets, Harrisburg, Pa. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owner, Mrs. J. Peters, on premises. Brick, 3 stories, 18x70 feet, steam heat, electric light, tile work, composition roof, hardwood floors, stone foundations, general interior alterations, plate glass. Plans in progress.

Residence (alts. and add.) to Apartment, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Reuben Ettenger, Carlisle, Pa. Brick, 3 stories, 24x80 feet, slag roof, pine floors, concrete foundations, steam heat, electric light, tile work, general interior alterations. Plans in progress.

Apartment, Carlisle, Pa. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owner, R. R. Todd, Carlisle, Pa. Brick, 3 stories, 55x72 feet, composition roof, hardwood floors, stone foundations, steam heating, electric lighting, tile work. Plans in progress.

Hotel (alts. and add.), 327 Market street, Harrisburg, Pa., $90,000. Architect, F. G. Fahnestock, Patriot Building, Harrisburg. Owner, A. Belehas, on premises. Brick and steel, 5 stories, 26x210 feet, concrete foundations, steam heating, electric lighting, tile and marble work, roof ventilators, hardwood floors. Plans in progress. Owner will take sub-bids.

Hotel (alts.) to Store and Offices, Market street, Harrisburg, Pa. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owners, Yoffel Bros., Senate Hotel, Harrisburg Pa. Brick, 3 additional stories, composition roof, metal cornices, plate glass, interior work. Plans in progress.

Garage, Eleventh and Market streets, Harrisburg, Pa. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owners, Conover & Wolf, 13 Howard street, Harrisburg, Pa. Brick and concrete, 2 stories, 67x110 feet, L shaped, slag roof, reinforced concrete floors, concrete foundations, steam heat, electric lighting, rolled steel sash, gasoline storage. Plans in progress. Owner will take sub-bids.

Residence, Belview Park, Harrisburg, Pa., $120,000. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. wner's name withheld. Brick, 2½ stories, 34x38 feet, slate roof, hardwood floors, stone foundations, vapor heat, electric light, tile work. Plans in progress.

Labor Temple, Harrisburg, Pa., $200,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner's name withheld. Fireproof, 6 stories. Too early for details.

Garage, Third and Delaware avenue, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Rex Garage and Supply Co., care of L. Shuttle,

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Lodge Rooms (alts.) to (9) Apartments, New Cumberland, Pa. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owner, Wm. Reif Butterfh, New Cumberland, Pa. General interior alterations, new plumbing. Plans in progress.

Lodge Hall, Letitz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Knights of Malta, care of Phautz Bros., Letitz, Pa. Frame, 1 story, 60x70 feet, slag roof, hardwood floors, steam heat, electric light. Plans in progress.

Apartment House (add. and alts.), York, Pa. Architect, R. A. Stir, Guardian Trust Building, York, Pa. Owner's name withheld. Brick, 3 stories, 26x130 feet, concrete foundations, slag roof, hardwood floors, steam heat, electric light, tile work, interior and exterior alterations. Plans in progress.

Houses (200), York, Pa. Architects, Gimmel & Billmeyer, Rossmiller Biulding, York, Pa. Owners, York Home Building Exchange, care of Max Grumbacher, York, Pa. Brick and stucco, 2 stories, pine floors, hot air heat, electric light. Plans in progress.

Residence (alts.) to Apartment, West Chestnut street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, H. L. Raub, East King street, Lancaster, Pa. Brick, interior and exterior work, tin roof, hardwood floors, tile and marble work, electric light. Architect will be ready for bids next week.

Factory, New Oxford, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, Fribush Bros., Baltimore, Md. Brick, 1 story, 66x112 feet, stone foundations, slag roof, maple floors, steam heat, electric light, rolled steel sash, fire doors, roof ventilators. Architect taking bids, due February 4th. C. A. Goyer & Son, and Hess Bros., York, Pa.; W. & J. Klunk, and O. H. Hostetter, Hanover, Pa., are figuring.

Road Work, various locations, Pennsylvania. Owner, State of Pennsylvania, State Highway Department, care of Lewis S. Sadle, Capitol Building, Harrisburg, Pa. Bids will be opened at 10 A. M. February 17th, 1920, at Pennsylvania State Capitol for the construction of the following roads:

Adams County, Route 123, Straban, Tyrone, Huntingdon and Latimore Townships, 52,042 feet, one course reinforced concrete. Certified check $4,000.

Bradford County, Canton and Troy Townships and Canton Borough, Route 20, 44,168 feet, one course reinforced concrete. Certified check $4,000.

Butler County, Route 78, Conoquenessing and Butler Townships, 31,663 feet, one course reinforced concrete. Certified check $4,000.

Cameron County, Route 99, Shippen Township, length 20,643 feet, one course reinforced concrete. Certified check $3,500.

Chester County, Route 131, West Grove Borough, 4,541 feet, one course reinforced concrete. Certified check $1,000.

Clarion County, Route 64, Strattonville Borough, 4,604 feet, one course reinforced concrete. Certified check $1,000.

Clinton County, Route 105, Renovo Borough, 4,108 feet, one course reinforced concrete. Certified check $1,000.

Elk County, Route 99, St. Mary's Borough, 3,169 feet one course reinforced concrete. Certified check $1,000.

Huntingdon County, Route 33, Mill Creek Borough, 4,243 feet, one course reinforced concrete. Certified check $1,000.

Luzerne County, Route 4, Union and Hunlock Townships, 16,886 feet, one course reinforced concrete. Certified check $3,500.

McKean County, Route 97, Bradford Township and Lewis Run Borough, 31,269 feet, one course reinforced concrete or monolithic vitrified brick. Certified check $4,000.

Potter County, Route 102, Pike and Ulysses Townships, 31,775 feet, one course reinforced concrete. Certified check $3,500.

Schuylkill County, Route 162, Schuylkill and Blythe Townships and Tamaqua Borough, 40,014 feet, one course reinforced concrete. Check $4,000.

Venango County, Route 233, Sandy Creek and Victory Townships, 46,100 feet, one course reinforced concrete and hillside vitrified brick. $4,000.

York County, Route 127, Shrewsbury Township and Shrewsbury Borough, 31,956 feet, one course reinforced concrete. Certified check $4,000.

York County, Route 127, Springfield and Shrewsbury Townships and Loganville Borough, 25,756 feet, one course reinforced concrete, $4,000.

Plans may be obtained at State Highway Department, Harrisburg, a., $2.50 per set.

Road Work, various locations, Pennsylvania. Owners, State Highway Department, care of Lewis S. Sadler, Capitol Building, Harrisburg, Pa.

The following are the low bidders on the Road Work:

Armstrong County, Kiskiminetas Township, Route 188, 10,610 feet, one course reinforced concrete. Summit Const. Co., Akron Ohio, $119,284.15.

Beaver County, Center Township, Appli. 254, 3,055 feet, vitrified brick. The J. C. Devine Co., Alliance, O., $38,622.50.

Butler County, Forward and Adams Townships and Callery Borough, Route 309, 28,188 feet, one course reinforced concrete. Sam Gamble Co., Carnegie, Pa., $302,047.30.

Butler Co., Fairview Township, Petrolia and Kearns City Boroughs, Route 251, 18,778 feet, one course reinforced concrete. Burns Bros., New Castle, Pa., $221,684.90.

Cambria County, Richland and Stony Creek Townships, Rout 222, 24,207 feet, one course reinforced concrete. Wm. Gindlesberger, Giestown, Pa., $308,110.57.

Carbon County, Lehigh Township, Appli. 1012, 23,420 feet, one course reinforced concrete. Sterling Const. Co., Inc., Lodi, N. J., $201,334.90.

Clearfield County, Sandy Township, Route 60, length 12,927 feet, one course reinforced concrete and hillside vitrified brick. Burnside Const. Co., Clearfield, Pa., $129,260.50.

Clearfield County, Brady Township, Route 59, length 7,281 feet, one course reinforced concrete. Johnson & Kearns, Dubois, Pa., $69.794.50.

Dauphin and Perry Counties, Route 195, Reed and Watts Townships and New Buffalo Borough, length 41,753 feet, either bituminous surface course on concrete foundation or one course reinforced concrete. MacArthur Bros., Co., New York City, $481,714.55.

Fayette County Henry Clay Township, Route 363, length 5,467 feet, one course reinforced concrete. C. Russell McIntyre, Fairchance, Pa., $65,632.99.

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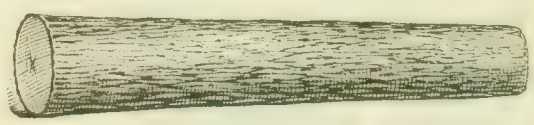
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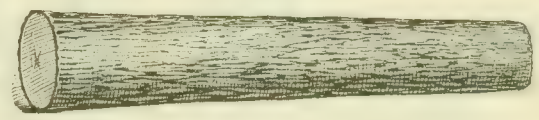


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Fayette County, Perry and Jefferson Townships, Route 247, length 14,496 feet, one course reinforced concrete and hillside vitrified brick. Strawn Const. Co., Uniontown, Pa., $193,-481.50.

Greene County, Center Township, Route 111, length 10,620 feet, one course reinforced concrete, J. Franklin Norris, Somerset, Pa., $151,-103.20.

Greene County, Center Township, Route 256, length 12,581, one course reinforced concrete. Burgess & Dorrier, Scottville, Va., $182,398.

..McKean County, Eldred Township, Route 2h0, length 14,800 feet, one course reinforced concrete. H. E. Bunce, Olean, N. Y., $135,-923.40.

Northampton County, lainfield and Washington Townships and en Argyl Borough, Route 165, length 20,164, one course reinforced concrete. MacArthur Bros. Co., New Yor kCity, $201,283.60.

Potter County, Roulette Township, Route 101, 5,033 feet, either bituminous surface course on concrete foundation or one course reinforced concrete. Horn & Devling, Galeton, Pa., $50,485.35.

Potter County, Roulette Township, Route 101, 7,892 feet, either bituminous surface course on concrete foundation or one course reinforced concrete. Horn & Devling, Galeton, Pa., $112,503.00.

Schuylkill County, Rush and Ryon Townships, Route 290, length 39,276 feet, one course reinforced concrete and hillside vitrified brick. Cease, Picton & Harrison, Wilkes-Barre, Pa., $550,383.28.

Venango County, Plum Township, Route 89, 2,080 feet, one course reinforced concrete. Jas. P. Morrissey, Dunkirk, N. Y., $36,636.45.

Westmoreland County, Salem and Unity Townships, Route 68, length 9,184 feet, one course reinforced concrete and hillside vitrified brick. J. C. Mickey, Latrobe, Pa., $135,-750.67.

Westmoreland County, L. Burrell and Allegheny Townships and Arno Borough, Route 188, length 38,438 feet, one course reinforced concrete and hillside vitrified brick. State Const. Co., New Kensington, Pa., $446,448.05.

Pennsylvania Contracts Awarded

Residences (12), Wyomissing, Pa. Architect, H. Mauer, 234 North Fifth street, Reading, Pa. Owners, Wyomissing Building and Savings Association, care of H. P. Roeper, Reading, P a. Brick and stucco, 2½ stories, various sizes, hardwood floors, hot air heat, electric light, tile work. Contract awarded to Chas. Schlegel, Reading, Pa.

Store Building (alts. and add.), Market and George streets, York, Pa. Architect, Louis Levi, Real Estate Trust Bldg., Phila. Owners, U. S. Woolen Mills Co., York, Pa. General remodeling, electric light, tile and marble work, new front. Contract awarded to S. F. Gladfelter, York, Pa.

Residences, Jenkintown, Pa., $12,500 each. Architect, Andrew J. Borzner, 717 Walnut street, Philadelphia. Agent, Theodore Delaney, Jenkintown, Pa. Hollow tile and stucco, 3 stories, 22x36 feet and 33x28 feet, shingle roof, oak floors, cement work, stone foundations, hot water heat, electric lighting, tile work. Contract awarded to E. Allen Reeves, Abington, Pa.

Residence (alts.), Elkins Park, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Albert Wolf, Elkins Park, Pa. Millwork, plastering, plumbing, shingle roof, carpentry, pine and parquetry floors, metal lath, tile and marble work, hardware. Contract awarded to Fred A. Schreiber, 1306 Cheltenham avenue.

Farm House (alts. and add.), Rose Tree, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Charles Leedom, Rose Tree, Pa. Stucco, 2½ stories, 20x36 feet, shingle roof, waterproofing, cement and composition floors, metal lath, electric lighting, tile work, stone foundations (heating reserved), iron work. Contract awarded to F. B. Davis, 240 North Sixteenth street, Philadelphia.

Ice Cream Factory, Coatesville, Pa. Architect, Benj. R. Stevens, Inc., 1737 Filbert st., Philadelphia. Owners, Breuninger Bros., Coatesville, Pa. Brick and concrete, 2 stories, 80x127 feet, slag roof, cement floors, metal lath, stone foundations, rolled steel sash, rolling steel doors, iron work (electric work and heating reserved). Contract awarded to Wm. J. Elliott, Coatesville, Pa.

Tobacco Sweat House and Boiler Room, Lancaster, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, Eisenlohr Bros., 932 Market street, Philadelphia. Brick, concrete and steel, 1 story and basement, 115x130 feet, slag roof, concrete floors, steam heat, electric light, hollow metal sash, roof ventilators, radio brick chimney, hollow metal doors, 3 boilers, 2 iron stairs. Contract awarded to D. W. Warfel, Woolworth Building, Lancaster, Pa.

Apartment (alts. and add.), North Duke street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Dr. Stein, care of architect. General interior work, heating extension, hardwood floors, tile and marble work, plumbing. Contract awarded to B. F. Bauchman, Lancaster, Pa.

New Jersey Construction News

Residence, West Collingswood, N. J. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, E. B. Shaw, Gloucester, N. J. Hollow tile and plaster, 2½ stories, 28x47 feet. Plans in progress. Will be ready for bids in a week.

Provision Department Building, Sixth and Kaighn avenue, Camden, N. J. Architect, Charles H. Caspar, 48 North Fifteenth street, Philadelphia. Owners, Star Beef and Provision Co., on premises. Brick and terra cotta, 2 stories, 41x76 feet, slag roof, cement floors, stone foundations, steam heat, electric light-

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ing, hollow metal skylights, iron work. Architect has received bids.

School (add.), Red Bank, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, West Depford Township, Thorofare, N. J. Hollow tile or cement, 1 story, 30x70 feet, shingle roof, maple floors, stone foundations (heating, lighting and plumbing extensions, reserved). Owners and architect taking bids, due February 9th at 7.30 P. M. Neilson & Carlson, Wenonah, N. J.; Jos. B. Best, Woodbury, N. J., and L. S. Parks, Swedesboro, N. J., are figuring.

Hotel (add.) (10 Stores), Boardwalk, Atlantic City, N. J. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, Brighton Hotel, Atlantic City, N. J. Brick, 1 story. Plans in progress. Too early for details.

Apartment House, Trenton, N. J. Architect, Walter S. Hankin, Trenton, N. J. Owner, C. F. Hildebrecht, Trenton, N. J. Steel, stone, concrete, brick and terra cotta, 8 stories and mezzanine, 246x49 feet, slag roof, oak, composition and poplar floors, hollow tile, metal lath, elevators, safety treads, waterproofing, dampproofing, concrete foundations, steam heat, electric light, tile and marble work, rolled steel sash, holow metal skylights, iron stairs, iron work. Architect has received bids.

Sales and Service Building, Atlantic City, N. J. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Packard Motor Car Co., 310 North Broad street, Philadelphia. Brick, stone and concrete, 1 story, 95x220 feet, asphalt roof, cement floors, concrete foundations, steam heat, electric lighting, tile work, rolled steel sash. Architect taking bids, due February 14th. P. G. Hannum, Samuel Headley, A. Bowen, J. S. Mathis & Co., C. P. Tilton, and Thompson Bros., all of Atlantic City, N. J., are figuring.

Church, Arctic avenue, Atlantic City, N. J. Architect, Frank R. Watson, 1311 Walnut street, Philadelphia. Owners, St. Augustine's P. E. Church, Atlantic City, N. J. Brick and hollow tile, 1 story, 40x135 feet, slate roof. Plans in progress. Architect will take bids in about one month.

New Jersey Contracts Awarded

Machine Shop, Haddon avenue, Camden, N. J., $24,000. Architects, E. F. & F. K. Bartling, Oaklyn, N. J. Owners, Kruse & Slattery, 730 Cherry street, Philadelphia, Pa. Concrete, brick, steel, slow burning, 2 stories, 50x100 feet, slag roof, wood floors, electric light, elevator, roof ventilators. Contract awarded to J. M. Yardley, 1716 Sansom street, Philadelphia, Pa.

Dirigible Hangar (alts. and add.), Spec. 4080, Cape May, N. J. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, Navy Department, Washington, D. C. Asbestos corrugated siding steel, 708x155 feet, asphalt-impregnated asbestos felt roof, composition floors, hollow tile, metal lath, waterproofing, concrete and wood piles, electric lighting, rolled steel sash and skylights, rolling steel doors. Contract awarded to Associated Contractors, Inc., New York City, $772,930, 270 days.

Automobile Building (alts. and add.), Trenton, N. J., $200,000. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Mercer Auto Co., Trenton, N. J. Brick, stone and concrete, second floor to office building, 40x73 feet. Paint Shop, 1 story, 60x401 feet. Machine Shop, alterations, concrete foundation, tile work, steel wall sash, rolled steel skylights, fire doors, iron work, roof ventilators, cement and maple floors, asbestos asphalt roof. Contract awarded to Standard Const. Co., 1713 Sansom st., Philadelphia.

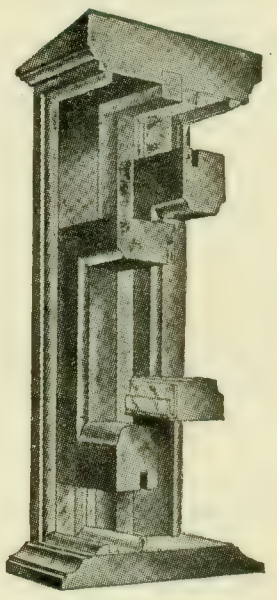
Factory, Taylor and Webster streets, Trenton, N. J., $50,000. Architect, private plans. Owners, Jos. Stokes Rubber Co., care of H. L. Moyer, manager, on premises. Brick, 2 stories, 70x100 feet, slag roof. Contract awarded to N. A. K. Bugbee Co., 206 East Hanover street, Trenton, N. J.

Laundry Building, Brunswick and North Montgomery avenues, Trenton, N. J., $100,000. Architect, J. Osborn Hunt, 114 North Montgomery avenue, Trenton, N. J. Owners, Blabely Laundry Co., care of R. B. Blabely, 11 South Warren street, Trenton, N. J. Brick, 1 story, 85x180 feet, slag roof. Contract awarded to N. A. K. Bugbee, 206 East Hanover street, Trenton, N. J.

Delaware Construction News

Apartment and Store, Delaware avenue, Wilmington, Del., $30,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Lewis Gross, Wilmington, Del. Brick, 3 stories, 37x60 feet, stone foundations, slag and tile roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

Houses (2), Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner's name withheld. Brick, 3 stories, 20x



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40 feet, stone foundations, slag roof, pine floors, hot water heating, electric lighting, tile work. Plans in progress.

Club House, Wilmington, Del. Architects, Ebbetts & Friel, 104 Ford Building, Wilmington, Del. Owners, Keystone Athletic Club, Wilmington, Del. Brick and Indiana limestone, 3 stories and basement, 40x100 feet, slate roof, hardwood and tile floors, stone foundations, electric light. Plans in progress.

Bank, Wilmington, Del., $200,000. Architecte, W. B. Hangward & Mills, 181 Madison avenue, New York. Owners, Industrial Savings and Loan Association, Mr. H. Stout, treasurer, Ford Building, Wilmington, Del. Brick and stone, 8 stories, 36x80 feet, slag roof, hardwood floors, electric lighting, tile work, hollow metal skylights, roof ventilators, mezzanine, steel and Indiana limestone. Owners will take bids March 1st.

Delaware Contracts Awarded

Store and Apartment (alts. and add.), 1017 Tatnal street, Wilmington, $12,000. Architect, private plans. Owner., Jolin Perrone, 3107 exterior alterations, add. 10x12 feet, plumbing. Contract awarded to C. H. Tindall & Monroe street, Wilmington, Del. Interior and Son, 614 Tatnal street, Wilmington, Del.

Store, 611 Market street, Wilmington, Del., $39,984. Architects, Brown & Whiteside, Du Pont Building, Wilmington, Del. Owners, S. S. Kresge Co., care of architects. Brick, general fire repairs. Contract awarded to W. H. Haddock & Co., 804 Orange street, Wilmington, Del.

Miscellaneous Construction News

Bank Building (alts.), Baltimore and High streets, Baltimore, Md. Architects, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Home Bank of Baltimore, on premises. General alterations to three-story building, hardwood floors, electric work, cabinet work. Architect taking bids , due February 9th. Hicks, Tase & Norris, Charles A. Stockhausen, Robinson Const. Co., and Clarence E. Stubbs, all of Baltimore, Md., are figuring.

Manufacturing Building, Bridgeport, Conn. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Salts Textile Co., Bridgeport, Conn. Steel, brick and concrete, 1 story, 105x340 feet, steam heating, electric lighting, rolled steel sash, prepared roof, reinforced concrete floors. Architects taking bids, due February 9th at Philadelphia office. Aberthaw Const. Co., West End Trust Building; Turner Const. Co., 1713 Sansom street; Hughes-Foulkrod Co., Commonwealth Building, Philadelphia; Foundation Co., 233 Broadway; United Fireproofing Co., 8 West Fortieth street; Industrial Eng. Co., 30 Church street; Fred T. Ley, 19 West Forty-fourth street; Thompson Starrett Co., 49 Wall street, all of New York City, and Schwartz Bros. Co., Bridgeport, Conn., are figuring.

Residence (remodeling), Charlotte, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Robert Lassiter, Charlotte, N. C. Frame, 2½ stories, plumbing, electric work and general remodeling. Plans in progress.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 31, 1920.—Sealed proposals will be opened in this office at 3 P. M., March 29, 1920, for the construction of the United States Post Office and Custom House at Apalachicola, Florida. Drawings and specifications may be obtained after February 16, 1920, from the custodian of the site at Apalachicola, Florida, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 87.)

as overhead is made much of, but, while hinting darkly at scandal, the buck is passed to some officer of the law who is invited to prove the case. The cautious form of the accusation is quite understandable, for the senators only published half of the evidence. Overhead was allowed only when draftsmen were working in the office on the preparation of the plans. As soon as construction was commenced the draftsmen were dispensed with and no more overhead was allowed, but the office expense nevertheless continued until the work was entirely finished. Under this arrangement the angle of incidence was balanced by the angle of reflection, and during the later period of the life of the contract the architect was always working at a serious loss. I submit that no real profiteer would agree to such an arrangement.

That Mr. Eidlitz, as president, was guilty of every act of omission and commission specified by the honorable senators may be accepted, and yet the outstanding fact remains that these houses and towns represent one of the most valuable physical by-products of the war. The salvaging of both the idea and the material expression of the idea is the part of statesmanship. Indeed, the mandate to the committee was to report on the maintenance, the location and a plan for future disposition of these groups of dwellings. But disregarding their instructions they devoted their entire time to minimizing the value of what has been accomplished.

There is constant evidence of ill temper throughout the report. The very fact that these houses are beautiful, that they are well arranged, individually and in groups, that they are light and healthful seems to have irritated our good senators overmuch. A sneer at knowledge and decency has ever been an occupation of the demagogue and should have no part in a senatorial investigation.

The Housing Corporation was slow and inefficient, there is no question about that. The houses which Congress talked about for over a year it failed to construct, ready for occupancy, in less than four months. But they would have been finished shortly and would have served their purpose admirably.

The congressmen are prophets after the event. It now seems quite natural to them that hostilities ceased on November 11. They forget that up to the last day of the contest they themselves were voting fabulous sums of money to finance its continuance through another twelve months. But Pershing and Foch moved more quickly than was calculated. The foe collapsed. And the Housing Corporation, in addition to its other shortcomings, is accused of benig a poor guesser.

The fundamental characteristic of these houses is that they are the result of a social effort as contrasted with the habitations built for profit, and their superiority over the type to which we have been accustomed is thereby accounted for. Exploration along these lines would reveal unexpected vistas, and these innocent little facts might explain why the heathen do now rage.

In many places in the United States, as the result of all this activity, we now find ourselves in possession of groups of houses of an arrangement and design far superior to anything that speculative effort ever did or ever could do. They have a social as well as a money value, and handled in a sympathetic manner could form a stepping stone to a better era in our housing methods. What shall we do with them? That is the last thing the senators are thinking of, and in ignoring the only practical aspect of the question they are infinitely more culpable than the men they are investigating. There is not one hint of constructive criticism in their entire report. To gain a political advantage they are perfectly willing to dissipate and wreck one of the few blessings which the war has bestowed upon us.

* * *

HIGHER PRICES FOR ROOFIN GMATERIALS

Members of the Associated Roofers of America, in convention last week at Chicago, were practically unanimous in predicting higher prices for roofing material. They claimed, however, that they would not raise the price of roofing on buildings unless forced to do so by the advancing cost of raw materials.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

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NEW BUILDING ORDINANCE FOR LOWER MERION TOWNSHIP.

A recent Pennsylvania State law permits townships of the first class, of which Lower Merion is one, to write their own building laws and to prescribe fire limits wherein none but buildings of a fire-resistive character may be erected.

Acting under this authority the Township Commissioners of Lower Merion accepted the offer of the Main Line Citizens Association to present a building ordinance. It was written by a committee whose members are Messrs M. B. Medary, Jr., Chairman; John Irwin Bright, Paul A. Davis, 3d, Horace W. Sellers, Horace W. Castor and John Ihlder. Messrs D. Knickerbocker Boyd and Victor D. Abel were the consultants and the complete ordinance is now in the hands of the commissioners. The law embodies a number of unusual features.

The Building Inspector, who will be appointed by the Commissioners, will be required to keep on file a complete list of laws and requirements affecting building in its various phases. At the present time there are a number of public utilities companies, fire underwriters associations, etc., whose rulings, if not followed, often cause delay and loss to the builder. The existence of various mandatory State enactments is sometimes unsuspected until at some inconvenient time attention is drawn to them by a State official. All this onformation will be collected and kept in one place at the disposition of the prospective builder.

The keynote of the law is its method of classifying buildings. In the determination of this question the character of its occupancy, or, in plainer terms, its use, is regarded as the index, to be modified later by considerations such as height, size or safety to human life. Materials of construction are divided into seven groups, each graded according to its fire-resistive qualities. Each classification, of which there are six in number, calls for its appropriate grade of materials. The result is an harmonious design from a structural point of view because for any given building the requirements for each kind of material or each subdivision of construction are approximately the same.

The method also greatly diminished the necessity for special rulings, that bete noir of building inspectors, architects and contractors.

The door is left open to inventions and discoveries by the proviso that any material passing certain specified tests may be substituted for any material mentioned. The imposition of present practice upon unknown future conditions is often responsible for serious financial loss to the public and the way to evade the loss is to allow free scope to human ingenuity.

While demanding in general an improvement in structural methods, the part of the law dealing with the large question of materials and their uses is of a flexibility that will bring about the result at the least possible increase of cost.

In legislating for dwellings the suburban character of the territory covered by the law was always kept in mind. It has been frankly stated that the ultimate destiny of the Main Line, at least as far as Bryn Mawr, is an unbroken stretch of brick and concrete buildings, dominated here and there by tall apartment houses and factories. An examination of all modern cities will show how easily this may come to pass, but that it is inevitable is quite a different matter. In the opinion of the committee it is neither inevitable nor desirable and, in writing the law, they frankly endeavored to render difficult and even impossible such a lamentable invasion of this beautiful country-side.

Under the proposed measure apartment houses may be built, but only of a better and safer type than at present.

The crowding together of dark and dismal houses of a flimsy construction will no longer be permitted.

All public schools are now erected subject to the requirements of a State law. They are fairly good, but while they could and should be improved in some particulars, they are uniformly safer and more sanitary than the vast majority of private institutions. Private schools, many of which are now veritable fire traps and disease breeders, will in the future have to be at least equal to the State requirements for public schools.

The choice between the present condition of anarchy or a system based on law is now squarely up to the citizens of Lower Merion Township.

The Committee on Building Construction of the National Fire Protective Association, meeting in New York last week, gave this proposed law the sincerest flattery by adopting for their future policy certain of its main provisions.

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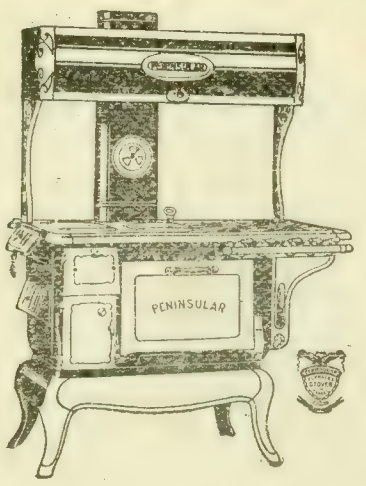
FIRE LOSSES AND FIRE PREVENTION

A marked decrease in the total fire losses in the United States and Canada is shown by the following table, giving the total losses to property by fire during the months of June, July, August and September, 1919. As is usual, more than half the total loss has occurred in congested and mercantile districts which are largely left during the night without sufficient watchman or fire alarm service. As will be noted, dwellings comprise a surprisingly small percentage, especially in view of the fact that we are frequently confronted with forceful statements by insurance men that wooden dwellings and shingle roofs are the greatest menace to life and property.

Warehouses and factories	41.6%	$29,707,000
Business section	12.	8,972,000
Oil refineries, mills and tanks	10.3	7,275,000
Tornado	8.6	6,000,000
Saw mills, yard and millwork	7.2	5,135,000
Grain elevators and crops	3.5	2,786,000
Dwellings	3.5	2,776,000
Wharves, coal sheds, bridges and boats	3.4	2,665,000
Hotels	3.2	2,265,000
Stables and barns	1.8	1,227,000
Garages	1.6	922,000
Theatres, schools and churches	1.4	662,000
Timber land and forests	.8	530,000
Government property	.1	75,000
Total	100. %	$70,918,000

What we most need, according to the Architectural and Building Code Service of the National Lumber Manufacturer's Association, are intelligent men at the head of municipal fire prevention bureaus with broad enough vision to see the necessity for proper building ordinances regulating construction and fire prevention in our congested business districts, where more than half of our annual fire loss occurs.

The insurance men, keen to ride the "combustible roof" and not the "defective flue"—the real cause of 75 per cent. of roof fires, are still harping on the huge loss by conflagration in 1916 but do not state that conflagrations in 1918 and 1919 were practically nil. What is needed is an intensive campaign against the "defective flue" and the careless individual. If laws are made to punish those responsible for *starting* fires, the *spread* of fire will be a negligible item.



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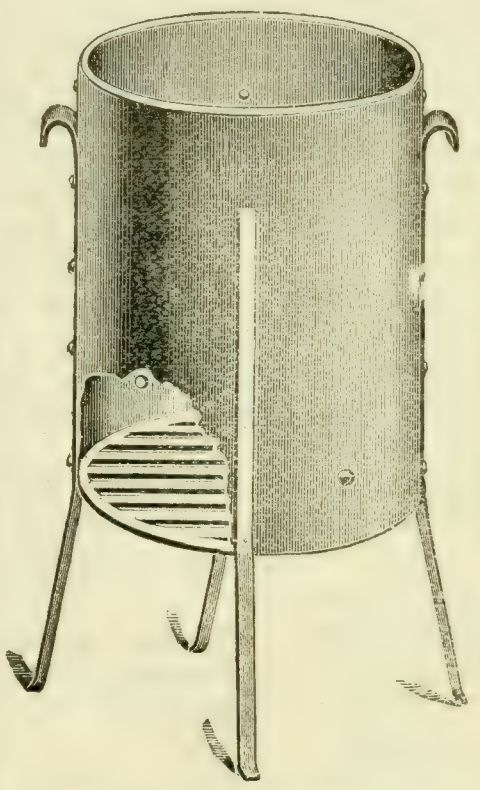
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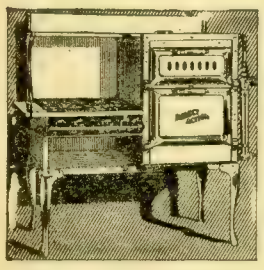
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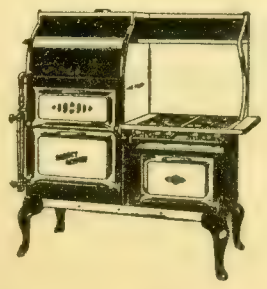
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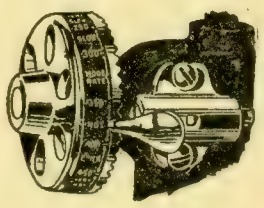
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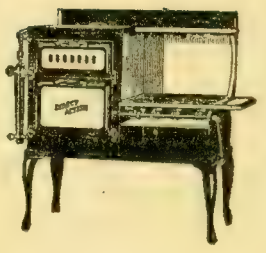


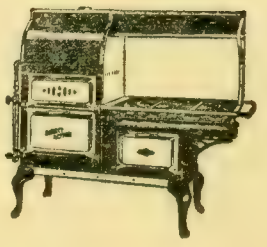
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXV, No. 6
February 11, 1920

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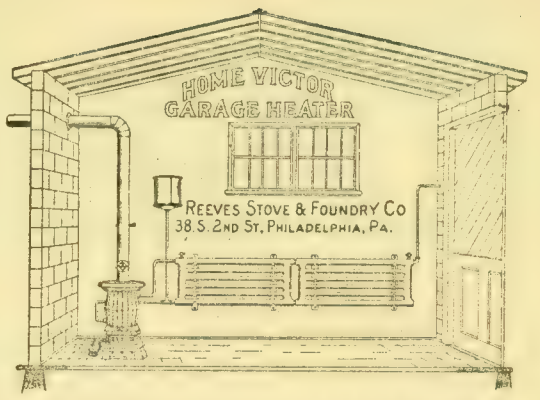
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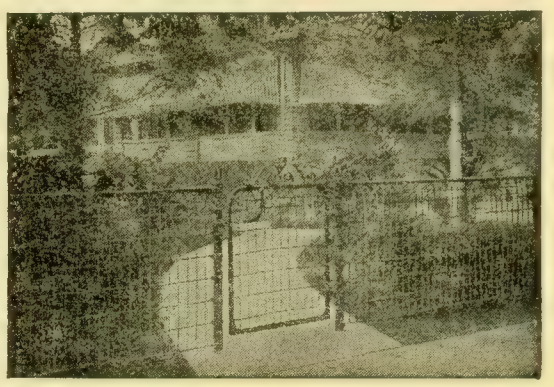
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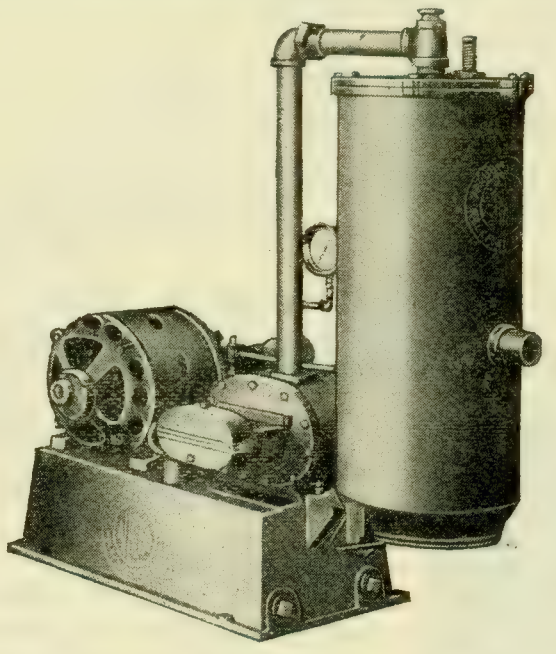
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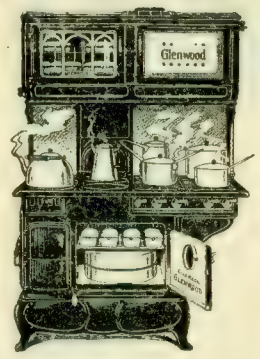
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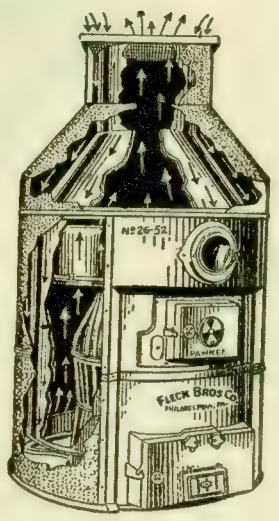


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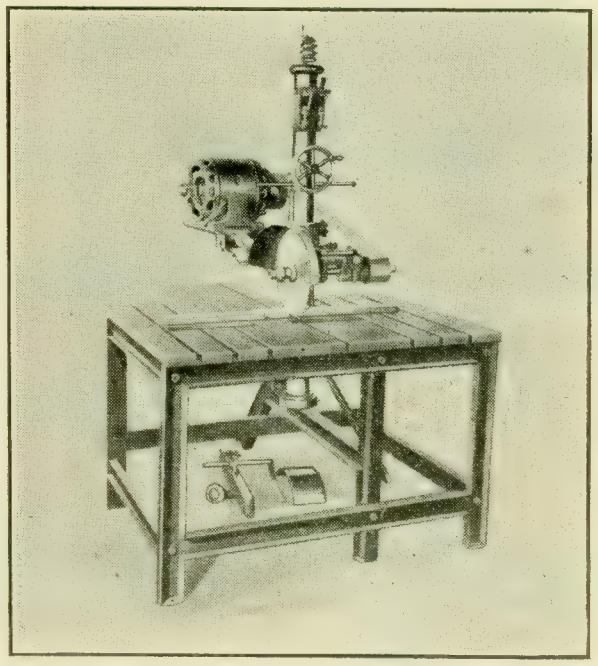
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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Number 6

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As The Editor Sees It

FIRE losses and fire hazards have received a vast amount of publicity recently and as is always the case publicity has proved prohibitable. The building laws of the country are receiving severe criticism and many suggestions for improving them have been made. Last week we printed in the GUIDE some important changes advocated by the committee revising the Lower Merion Township building laws. Complying with the generous invitation and forceful request made at a luncheon of the Rotary Club by Hon. J. Hampton Moore, Mayor of Philadelphia, to Rotarians and citizens of Philadelphia to co-operate and to suggest improvements, James Pearce, President of the Pearce Fireproof Company, Philadelphia, has made some timely and most worthy suggestions for improving existing building laws and their enforcement. In a letter to Mayor Moore, Mr. Pearce writes:

Having noted your plea for co-operation in your address at the Rotary Club, and after reading the facts in regards to the horrible fire on the 20th instant, I beg to call your attention to a letter which I wrote to Hon. W. I. Schaffer, Chairman of the Constitutional Commission, Harrisburg, on December 22d.

"Fire loss in this State plays a conspicuous role among similar casualties in our country, which last year totaled in round numbers some 250 millions of dollars. For a large percentage of these, existing age-old laws are directly amenable in that they neither place restrictions on the use of building materials, nor assist towards safer construction. This is most emphatically true in the case of home and apartment building. Not only is no requisition made for fireproof construction, but not even for fire resistance, where the matter of price of material presents a small factor for consideration.

Chiefs of Building Departments and Building Inspectors are fully aware of instances where fire protection is most necessary, but cannot enforce precautionary measures on account of antiquated laws which have failed to run parallel with building progress. Legal advice to a Building Department head of a large city was given to the effect that he had authority to enforce Building Laws as written, but that neither the injection of ameliorative legislation, nor the enforcement of utilization of improved fire-resistance came within his domain, regardless of the public benefit it conferred.

Unfortunately individuals like myself, manufacturers of, and dealers in latest and most approved fireproofing and fire-resisting materials, may not offer suggestions for betterment without official criticism or public animadversion, tho business men who promote and manufacture along these specialized lines, are unquestionably the real authorities on improved construction, and the value of material for specific purposes. Experimentation in fire-protective material has entailed large expenditures, and bestowed on its adherents, it seems to me, the good privilege of requesting improved legislation, in keeping with progress, which shall offer further incentive to protection of life and property.

In the revision of present laws for the general betterment of our commonwealth, I trust that special attention will be given Building Codes, that renewed stimulus may be offered those, whom I believe are rendering large and lasting service, and that every reasonable protection may be extended to citizens in both industrial and private life."

Mr. Schaffer has promised that this matter will be brought to the attention of the commission, and I have also received a letter from Mr. Wm. Draper Lewis that this matter has been referred to Mr. George S. Alter, Chairman of Committee No. 1.

Irrespective of any criticism as mentioned in the third paragraph in my letter to Mr. Schaffer, I believe it the patriotic duty of every citizen or tax-payer, who may be acquainted with conditions, to offer suggestions for the benefit of the community. This matter is also being called to the attention of the Master Builders' Exchange, of which I am a member, and I assure that the Exchange would endorse the revision in Building Laws that safeguard lives and property

DRAWING MATERIALS

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of our citizens.

The following is an extract from the *Literary Digest,* under date of January 3, 1920, copy of which was forwarded to Mr. Schaffer:

"SHALL WE LABEL FIRE-TRAPS?—The labeling of buildings to show their degree of resistance to fire is recommended in the *Popular Science Monthly* (New York) by F. W. Fitzgerald, who notes that every step of the way toward fire-protection has involved a fight with the property owners, who ought to be most interested, and that force must always be used to get the degree of protection that the public needs. He continues:

"Since it is only by force that we can accomplish anything in that line, let's get still another law or ordinance through: the labeling of buildings. We have laws now as to just how buildings shall be constructed in this or that district, and it is the building commissioner or inspector who passes on the matter, interprets the ordinance, and is the authority in each city. Let us give him still another function: the inspection of all buildings of a public or semi-public nature—churches, halls, stores, hotels, apartment houses, any building that houses more than twenty people under one roof. After these buildings are inspected, they should be put in one of three classes and labeled.

" 'Fire Resisting' would mean that the building is constructed according to all the requirements of fireproof construction; 'Ordinary Construction' would mean that the building, though not fireproof, is reasonably safe and has the requisite sprinkling apparatus or other protection installed; 'Dangerous' would point out the fire-traps. No law, no police, no terrible lessons would have half the effect upon property owners as would this labeling. With 'Dangerous' marked over his door what chance would an owner have of renting his building?"

From information received I understand that if a person builds a one-story store building it is required to have a fireproof ceiling on same; but if the building is constructed so that living quarters are above the store, the fireproof ceiling is not required. The inconsistency, as has been explained to me, is because in the first case the building is classified as a store building, and in the second case it comes under the classification of a residence.

Such organizations as the Master Builders' Exchange would welcome the opportunity to co-operate with you, or your department, should you contemplate any revision in the present Building Laws.

WHERE GOES THE CITY PLANNING MOVEMENT?

By FREDERICK L. ACKERMAN

"FUNDAMENTAL PRINCIPLES"

The literature of the city-planning movement and the conferences devoted to a discussion of its aims and purposes are replete with allusions to what are called, by those who write and talk, the "fundamental principles" which are supposed to animate city planning as an activity and to justify that activity in the light of reason. While it is not difficult to arrive in a general way at a fairly clear understanding of what is meant by the term, and also what it is hoped will be accomplished through an application of the so-called "fundamental principles" set forth, it is difficult to arrive at anything like a clear understanding of what these "fundamental principles" mean in terms of action, or specifically, what it is hoped will result from their application.

To engage in the operation of giving conscious direction to the development of our material environment so that it will better serve the common good is a suggestion in the nature of a "fundamental principle," one which appeals without further description as of sufficient merit to justify approval. But, like all so-called "fundamental principles," it conveys little meaning as to how this is to be accomplished unless broken up and applied to concrete situations, which involves consideration of what sort of action should be taken, for acting obviously must be conceived in terms of existing conditions.

SHALL WE STUDY SYMPTOMS OR CAUSES?

It would appear that any attempt to translate the so-called "fundamental principles" of city planning into such terms as would constitute a program of action which might serve to give direction to the growth and expansion of our material environment along rational lines should be largely, if not entirely, confined to the realm of scientific investigation and not that of mere speculation, for, as suggested, results are obtained through definite action applied to real situations. Scientific investigation should, therefore, address itself first to an inquiry into the causes which have brought about the condition, which, in turn, give rise to that activity which finds its justification on the ground that by action along certain lines changes in our ill-arranged material environment may be affected which will make for the common good. For it should be obvious to anyone that any attempt to modify existing conditions in our material environment will not become effective unless the causes which gave rise to existing mal-adjustments are eliminated. Hence it would appear that we have a point of departure which may serve as a basis of an inquiry into the present status of the city-planning movement and an evaluation of the work of those engaged in it. This same inquiry may well be used as the basis for a program of action to be applied to real situations.

Any brief statement, of course, which attempts to set forth what might be characterized as the "fundamental principles" which are to be observed by those engaged professionally or otherwise in the complex activities of working out these changes must be in the nature of broad generalizations qualified by numerous exceptions. For in the volume of literature spoken of in the first line of this article, there is to be observed a considerable range of opinion as to what city planning is, particularly with respect to the professional qualification of those who engage in it. At best, little more than a rather loose and inaccurate description must be used. But for the purpose in hand this loose description will be sufficiently accurate, since it is not at all difficult to discover, in so far as definite action is proposed, that the consensus of opinion is in favor of confining action to a certain fairly well-defined attitude as regards matters with which it is deemed pertinent for those engaged in city-planning work to deal.

"NORMAL TENDENCIES"

Without attempting to state in precise terms what may be said to express the underlying purposes of city planning as conceived by its spokesmen; without attempting to set forth the activities which its professional advocates assume should fall within the field of their own special concern; without venturing an opinion as to what constitutes the relative importance of the various professional or lay points of view which must be recognized, given a hearing, and made use of, it is clear beyond any question that the opinion which most readily passes current among the spokesmen of the movement is that city planning is an activity which takes its point of departure in the conditions of the present, and which proposes to accomplish its purpose largely

(Continued on Page 119.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store and Apartments (alts. and add.), S. E. corner Sixteenth and Venango streets. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Herbert A. Buxbaum, 3516 North Seventeenth street, Philadelphia. Brick, 1 story addition, 15x18 feet, new slag and tin roof, pine floors, steam heat, electric light, tile work, plumbing. Architects and owner taking bids, due February 13th. Lam Building Co., 1001 Wood sreet; A. H. Spenard, 822 Wood street, and Louis Cohen, 417 Christian street, are figuring.

Store Building (alts.), 1007 Arch street, Philadelphia. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Rumsey Electric Co., on premises. Brick work, mill work, carpentry, plastering, composition floors, skylights, ceramic tile, new elevator shaft, kalamein doors (roofing, fire escape, elevator, heating and electric work reserved). Engineers taking bids, due February 14th. John A. Codori, 1235 Arch street; Smith-Hardican Co., 1606 Cherry street; Barclay White Co., 1713 Sansom street; H. John Homan, Middle City Building; Stokes Bros., 6723 Musgrave street; Sutton & Stephenson, 1317 Washington avenue, and F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Service Station and Garage, 3723 Walnut street, Philadelphia. Architect, private plans. Owners, C. C. Coolbaugh & Frank C. Mackland, Nineteenth and Cambria streets, Philadelphia. Terra cotta and brick, 1½ stories, 40x120 feet, slag roof, cement floors, stone foundations, electric lighting, steam heat, rolled steel sash, rolled steel skylights, fire doors, roof ventilators. Owners taking bids, due as soon as possible. J. D. Fisher, 5414 Thompson street, is figuring.

Residences (18), Duncannon and Hutchinson streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Hugh L. Hiller, care of architect. Brick and stone, 2 stories, 16x45 feet, slag roof, oak floors, stone foundations, hot water heat, electric light, tile and marble work. Architect taking sub-bids.

Office and (4) Apartments (alts.), Broad and McKean streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Franklin C. Scheid, Fifteenth and Snyder avenue, Philadelphia. Brick, 3 stories, hardwood floors, metal lath, cement work, plastering, flush bulks, hot water heat and plumbing. Owner is ready for sub-bids.

Dwelling, N. E. corner of Washington Lane and Greene street, $10,000. Architect, private plans. Owners, hiladelphia Housing Corp., 4938 Greene street, Philadelphia. Brick, 3 stories, 20x20 feet, 30x15 feet, steam heating, electric lighting. Owners will build.

Dye House (add.), Palethorp and Allegheny avenue, $7,000. Architects, Wm. Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Cadet Hosiery Co., Second and Allegheny avenue. Brick, 1 story, 33x47½ feet, slag roof, cement floors. Engineers will build.

Shop, 2239 North Thirtieth street, Philadelphia, $2,500. Architect, private plans. Owner, Chas. J. Williams, 3200 Arizona street, Philadelphia. Brick, 1 story, 16x60 feet, slag roof, electric lighting. Owner will build.

Dispensary (add.), Old York Road, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Jewish Hospital, Old York Road, Philadelphia. Stone. Preliminary plans in progress. Too early for details.

Garage, Ludlow street, between Fifty-second and Fifty-third streets. Architect, private plans. Owner, J. D. Fisher, 5414 Thompson street, Philadelphia. Brick, slow burning construction, 1 story, 100x128 feet, slag roof, cement floors, stone foundations, steam heat, electric lighting, millwork, rolled steel sash, rolling doors, roof ventilators. Owner is taking sub-bids.

Factory (alts.), Twenty-third and Locust streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Crane Ice Cream Co., Twenty-third and Locust streets, Philadelphia. Office partitions, tile work, cement work, plumbing, painting, heating and electric work. Architects subletting and will build.

Bridge, Forty-ninth street, over P., B. & W. R. R., Fortieth Ward, Philadelphia. Engineer, private plans. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Director John C. Winston, 416 City Hall. Brick, with grading, paving and appurtenant work. Owners taking bids, due February 20th at noon.

Sewer, Bigler street, from Delaware River to Severn street, Philadelphia. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Director John C. Winston, 416 City Hall. Sewer, inlets, manholes, well holes, laterals, branch sewer spurs. Owners taking bids, due February 20th at noon.

Factory Building, Nos. 8 and 10 Queen street, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, J. Milton Hagy Waste Works, 836 South Swanson street, Philadelphia. Concrete, steel and brick, 4 stories, 40x92 feet, slag roof, concrete floors, stone foundations, kalamein doors, fire escapes, iron work (heating, electric work and elevator reserved). Architects taking bids, due February 16th. J. Sims Wilson Co., 1125 Brown street; Wm. R. Dougherty, 1610 Sansom street; A. R. Raff Cont. Co., 1635 Thompson street; Barclay White & Co., 1713 Sansom street, are figuring.

Property (alts. and add.), 30, 32 and 34 South Second street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owners, Philip J. Walsh estate, on premises. Brick, 3 stories, 11x46 feet, slag roof, pine and parquetry floors, stone foundations, electric light, hollow metal skylights, metal ceilings, dampproofing, iron work, metal lath. Architect has received bids.

Residence (alts. and add.), Huntingdon street and Germantown avenue. Architect, Wm. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Otto Schlieske, on premises. Brick, steel and stucco, 3 stories, 37x20 feet, slag roof, pine floors, stone foundations, electric light, marble work, hollow metal skylights, metal ceilings. Owner taking bids, due February 17th. Thos. C. Trafford, 1615 Sansom street; Frank K. Stahl, 2713 North Park avenue, and Ketcham & McQuade, 1029 Brown street, are figuring.

Store Building (alts. and add.), N. E. corner Tenth and Market streets, Philadelphia. Architects, Hoffman Henon Co., Inc., Finance Building, Philadelphia. Owners, Schulte Cigar Co., 386 Fifth avenue, New York City. General alterations and additions. Plans in progress.

Power House and Engine Room, Baynton street and Chelten avenue. Architect, Frank V. Nickels, 4400 Main street, Manayunk, Philadelphia. Owner, C. E. Dearnley, Manayunk, Philadelphia. Reinforced concrete, 1 story, 33x90 feet, slag roof, cement floors, electric lighting. Brick stack, 100 feet high, 10 feet base, 5 feet top. Architect will be ready for bids in a week.

Residences (11), Fifteenth above Olney aveenue, Philadelphia. Architect, private plans. Owner, Wm. P. Baltz, 5435 North Eleventh street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, oak floors, stone foundations, electric lighting, hot water heat, tile work. Owner will build.

Store Building (alts.), 4446-48 Frankford avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Henry Stein, 4450 Frankford avenue, Philadelphia. Roof repairs, brick work, iron work, carpentry and mill work, plastering, metal lath, plumbing, elevator. Architects have received bids.

Residences (4), Olney, Philadelphia. Architect, Wm. H. Gilmore, Godfrey and G streets, Philadelphia. Owner, Wm. C. McClay, 4801 "A" street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, oak floors, hot water heat, electric lighting, stone foundations, tile work. Owner will be ready for sub-bids in a week.

Motion Picture Theatre, Fairmount avenue and Lex street, Philadelphia. Architects, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, Wm. Hill, care of architects. Brick, terra cotta, 1 story, 93x40 feet, slag roof, cement floor, hollow tile, stone foundations, steam heat, electric light, tile work, roof ventilators, waterproofing, iron work. Architects taking bids, due February 16th at 10 A. M. C. N. Rochell, 1217 Northeast Boulevard; J. F. Trent, 2041 Master



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street; Thos. C. Trafford, 1613 Sansom street; Concrete Construction Company, 1620 Thompson street; William R. Graham, 3649 Filbert street; H. John Homan, Middle City Building; Welch & Wheeler, 243 North Vodges street; J. F. Carberry, 1974 Medary street; Penn Const. Co., 902 Bulletin Building, and Standard Const. Co., 1713 Sansom street, are figuring.

Building, Tenth and Pearl streets, Philadelphia. Architects, Franklin & Co., Crozer Building, Philadelphia. Owners, Jarden Lithographic Co., on premises. Brick, concrete and steel, 2 stories, 38x52 feet, slag roof, maple and concrete floors, hollow tile, waterproofing, iron stairs, iron work, stone foundations, rolled steel sash (heating and electric work reserved). Architects have received bids.

Warehouse and Shop, State road and Devcraux street, $20,000. Engineers, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Gillinder & Sons Co., on premises. Brick and concrete, 2 stories, 39½x61 feet, slag roof, electric lighting. Engineers will build.

Bottling House (alts.), Thirty-first street, North of Jefferson street, $5,000. Architect, Charles H. Caspar, 411 Denckla Building, Philadelphia (Engr.). Owner, F. A. Poth & Son Co., on premises. General alterations. Engineer will take sub-bids.

Garage, 1204-06 North Eighth street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, J. Cohen, on premises. Brick, 2 stories, 38x110 feet, slag roof, cement and plank floors, stone foundations, electric lighting, steam heating, mill work, hollow metal skylights, elevator, structural steel work. Plans in progress.

Store (alts.), 2114 Columbia avenue, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, J. Loeb, 2221 Columbia avenue, Philadelphia. General remodeling, heating, electric lighting, tile and marble work, cement work, hardwood floors, copper work, metal ceilings, flush bulks, plate glass. Ready for bids in a week.

Store and Apartments (alts.), 1214 Columbia avenue, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, H. Wasserman, on premises. Brick, 3 stories, 16x75 feet, copper bars and sill, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, millwork, plate and leaded glass, metal ceilings, hollow metal skylights. Garage in rear. Brick, 1 story, 12x18 feet, slag roof, cement floor. Architect and owner are ready for bids.

Store and Apartments (alts. and add.), S. W. corner of Fifty-third and Market streets, Philadelphia. Architect, H. Weldon, 10 South Eighteenth street, Philadelphia. Owner, L. F. Calby, on premises. General interior alterations. Owners taking bids, due as soon as possible. J. D. Fisher, 5414 Thompson street, and John Gill & Co., Otis Building, are figuring.

Building (alts. and add.), 3644 North Broad street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, I. Leblang, on premises. Brick and steel, 3 stories, 15x17 feet, slag roof, pine floors, metal lath, stone foundations, hot water heat, electric light, tile and marble work, ornamental iron work. Architects taking bids, due February 14th. Hogg Construction Co., Denckla Building; F. E. Wallace, 1220 Chancellor street, and W. O. Springer, 1624 Latimer street, are figuring.

Service Building and Garage, 901-05 North Broad street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Louis J. Kolb, care of H. T. Saunders, 31 South Eighteenth street, Philadelphia. Brick, 2 and 1 stories, 160x65 feet, slag roof, cement and maple floors, metal lath, elevators, stone foundations, steam heating, electric lighting, tile and marble work, iron work. Agent taking bids, due February 16th. Potts Bros. & Cooperson, 129 North Eleventh street; Hogg Constduction Co., Denckla Building; Conneen Construction Co., 10 South Eighteenth street; Wark & Co., 1737 Filbert street, and George H. Evans, 45 North Thirteenth street, are figuring.

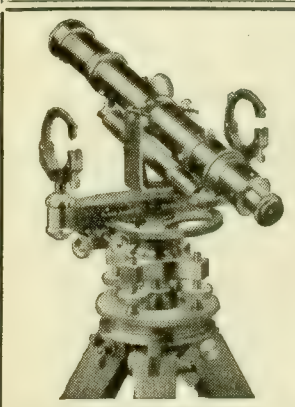
Garage (alts. and add.), 1320 Parrish street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owners, P. McNichol & Sons, 1319 Quarry street, Philadelphia. Brick and steel, 1 story, 18x75 feet, slag roof, cement floors, stone foundations, steam heat, electric light, iron work. Plans will be ready for bids in a few days.

Schools (2), Ninth and Oregon avenue and Seventieth and Buist avenue, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth street, above Chestnut street. Brick, stone, concrete, 3 stories. Plans completed. Owners will be ready for bids February 16th.

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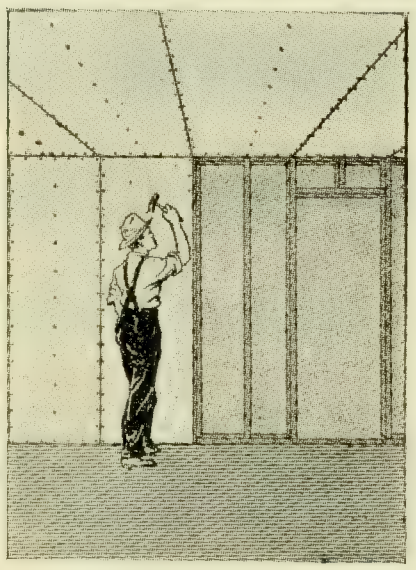
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Southeast Corner Second and Erie avenue, Philadelphia, $40,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Thomas Potter Sons Co., Inc., on premises. Brick, 3 stories, 40x9 feet, 48x66 feet, slag roof, steam heat, electric light. Contract awarded to Harry Brocklehurst, 512 West Norris street.

Factory (alts.), Northwest Corner Eleventh and Dauphin streets, $9,000. Architect, private plans. Owner, American Ice Co., Sixth and Arch streets, Philadelphia. Steel sash, plumbing, carpentry, mill work, cement floors. Contract awarded to Monaghan & Losse, 3016 Chestnut street.

Residence (alts.), 630 South Forty-eighth street, Philadelphia, $6,000. Architect, private plans. Owner, Mrs. Elizabeth Call, 1523 South Broad street, Philadelphia. General interior alterations. Contract awarded to Conneen Const. Co., 10 South Eighteenth street.

Community Garage, Sixth street, North of Rockland street, Philadelphia. Architect, private plans. Owner, O. F. Zurn Co., Broad and Lehigh avenues, Philadelphia. Brick and concrete, 1 story, 32x108 feet, slag roof, electric lighting, cement floors. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Warehouse, Westmoreland and Cedar streets, Philadelphia. Owner, Horace M. Hokanson, Presser Building, Philadelphia. Owner, Percy F. Hogan, 237 North Sixth street, Philadelphia. Brick and steel, 1 and 2 stories, 336x90 feet and 60x128 feet, slag roof, maple and cement floors, hollow tile, metal lath, stone foundations, steam heat, electric lighting, rolled steel sash and skylights, fire doors, iron work. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Church Building (int. alts.), Tenth and Wallace streets, Philadelphia. Architects, Stuckert & Co., 1420 Chestnut street, Philadelphia. Owners, St. Paul's Baptist Church, Tenth and Wallace streets. Plastering, carpentry, mill work, metal lath, hardware, plumbing, electric work, tile and marble work, heating repairs, iron work. Contract awarded to F. B. Davis, 240 North Sixteenth street, Philadelphia.

Building (alts.), 5706 Germantown avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, John S. Trower, Inc., on premises. Brick work, carpentry, steel and iron work, plastering, painting, glazing, electric work, composition floors, hot water heating. Contract awarded to H. John Homan Co., Middle City Building, Philadelphia.

Factory (add.), 857 East Girard avenue, Philadelphia. Architect, A. V. Gilchrist, 527 South Yewdall street, Philadelphia. Owner, Erik Jansson, on premises. Brick, steel and concrete, 2 stories, 50x58 feet, slag roof, cement and maple floors, metal lath, rolled steel sash, rolling steel doors, iron work (heating and electric work reserved). Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

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Building (add.), 325 Market street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Markovitz Bros., 325 Market street, Philadelphia. Repairing roof, brick work, plumbing, plastering, electric work. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Manufacturing Building (add.), Swanson street and Jackson street, $16,500. Architect, private plans. Owners, General Mfg. Co., on premises. Brick, 2 stories. Contract awarded to H. P. Friend, Norristown, Pa.

Store and Tenement (add.), Northeast Corner Twenty-second and Spring Garden streets, $6,000. Architects, Pollock & Rust, 1802 Chestnut street, Philadelphia. Owner, Frank I. Costella, on premises. Brick, 1 story, 26½x33½ feet, slag roof, pine floors. Contract awarded to William R. Graham, 3649 Filbert street, Philadelphia.

Garage, 540 Carpenter street, Germantown, $5,500. Architect, private plans. Owner, Q. Castwell, 655 West Johnson street, Philadelphia. Brick, 1 story, 20x85 feet, slag roof, cement floor, electric light. Contract awarded to C. W. Sobel, 528 West Sedgwick street.

Hotel (alts.), 21-23 North Juniper street, $3,000. Architect, private plans. Owner, H. Edwards, on premises. New front, plate glass. Contract awarded to James Johnston Co., 1721 Ludlow street, Philadelphia.

Building (alts. and add.), 210-12 North Front street, Philadelphia. Architects, Le-Roy K. Rothschild, 1225 Sansom street, Philadelphia. Owners, Standard Provision Co., 212 North Front street, Philadelphia. Brick, 2 stories, 21x95 feet, slag roof, cement floors, stone foundations, electric lighting, tile and marble work, hollow metal skylights, iron work (heating reserved). Contract awarded to M. H. McCloskey, Jr., Inc., 1620 Thompson street.

Tank Tower, 1430 Callowhill street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, A. E. Ford, 1430 Callowhill street, Philadelphia. Contract awarded to William Hale, 163 Ludlow street, Philadelphia.

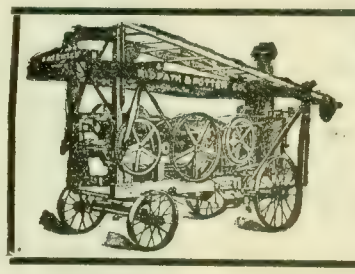
Storage (add.), 1627-29 North American street, Philadelphia, $4,500. Architect, private plans. Owner, George C. J. Fleck, 50 North Fifth street, Philadelphia. Brick, 1 story, 36x122 feet, slag roof, electric lighting.



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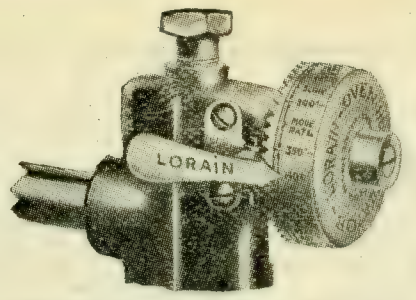
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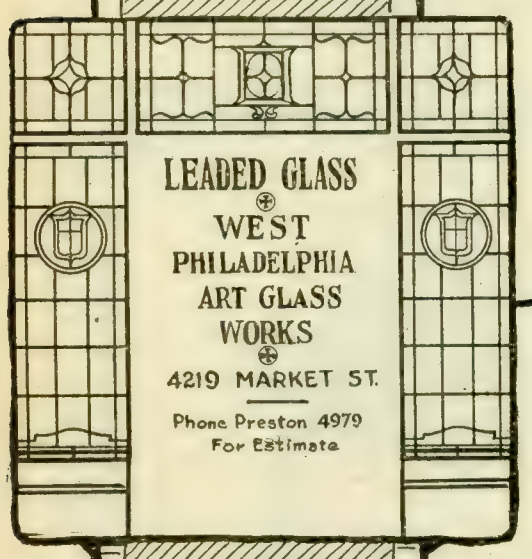
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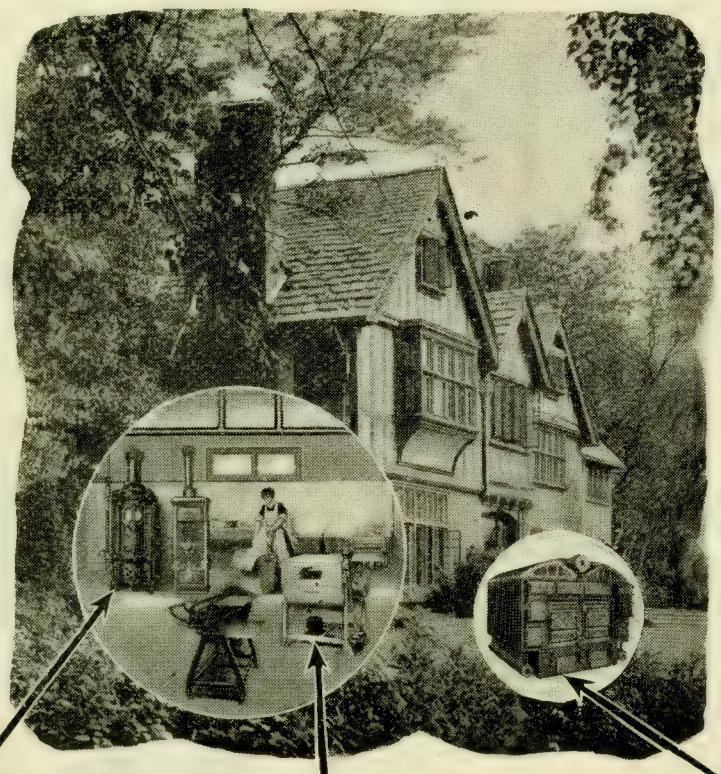
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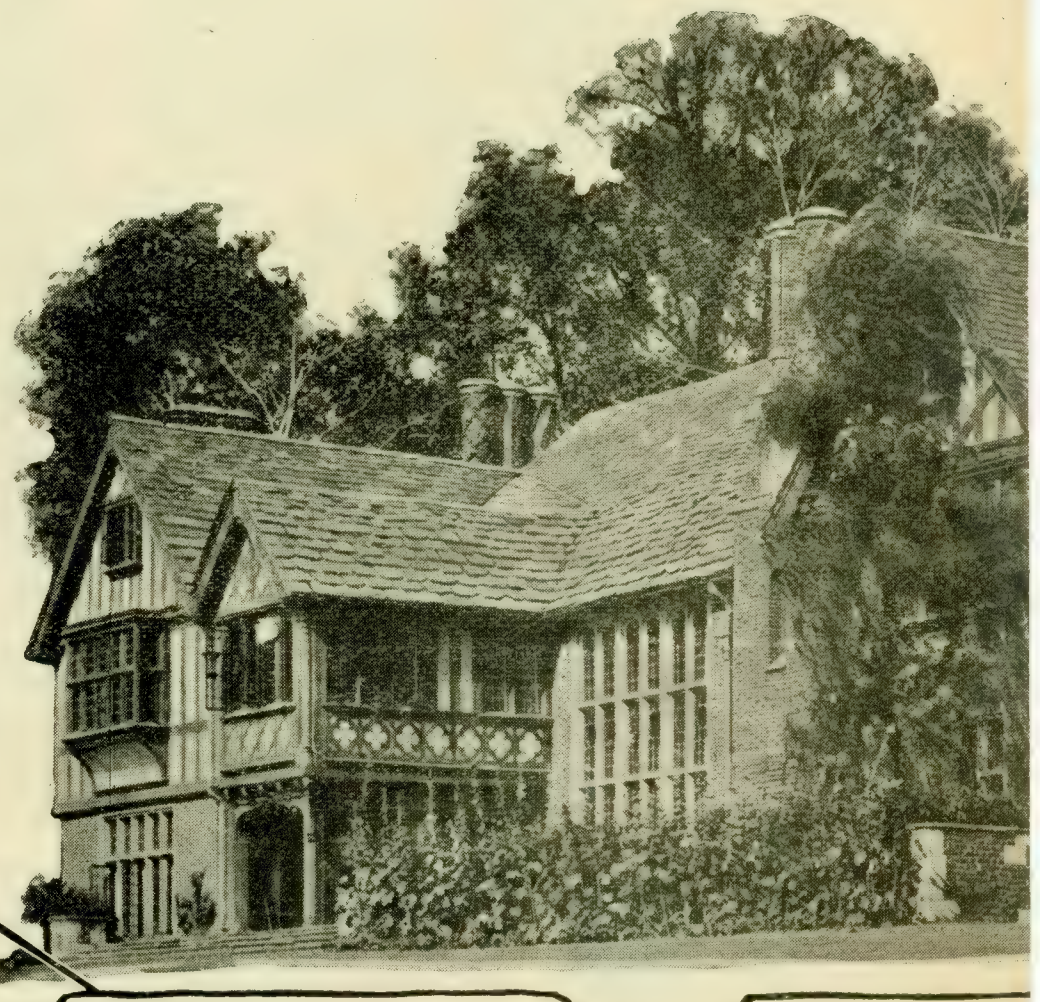
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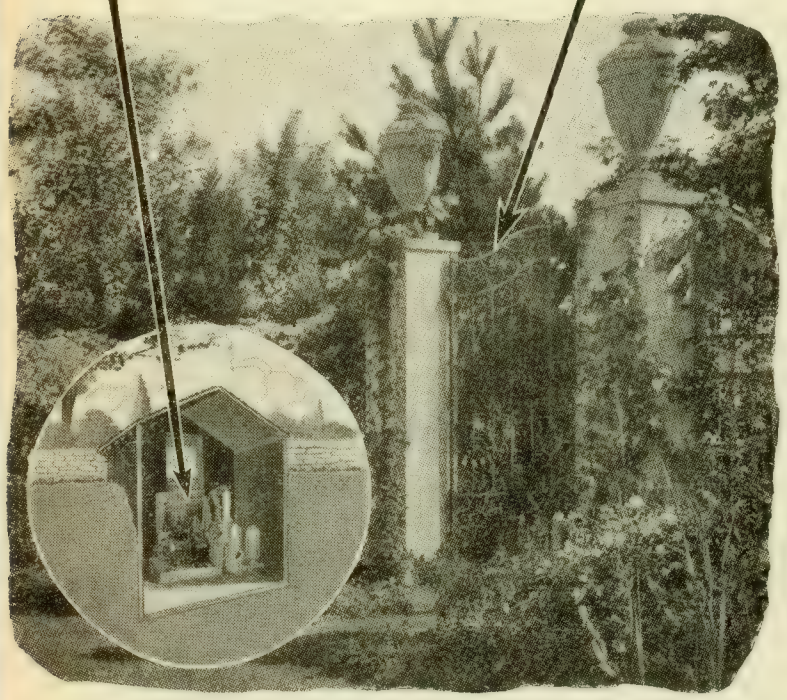
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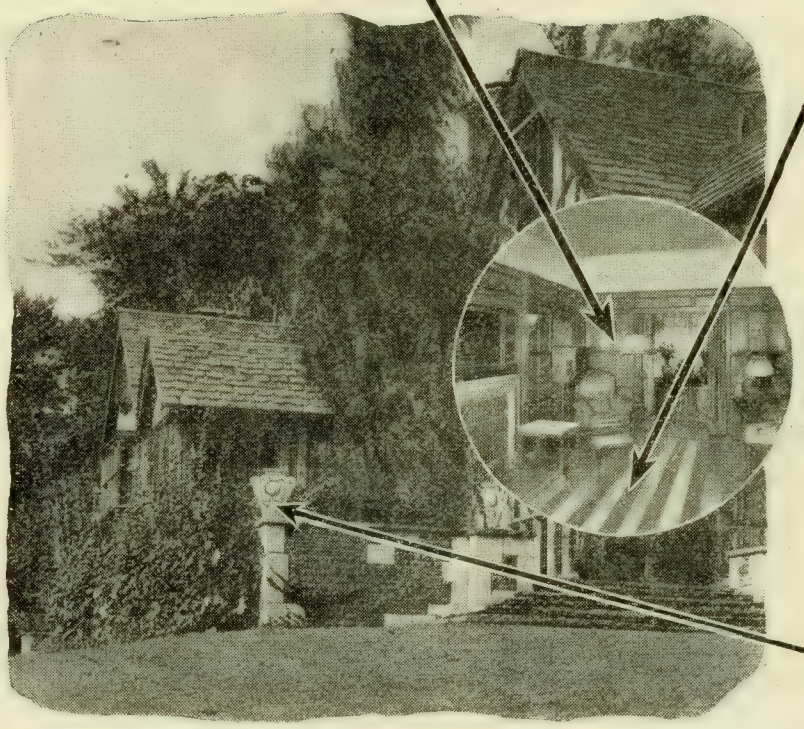
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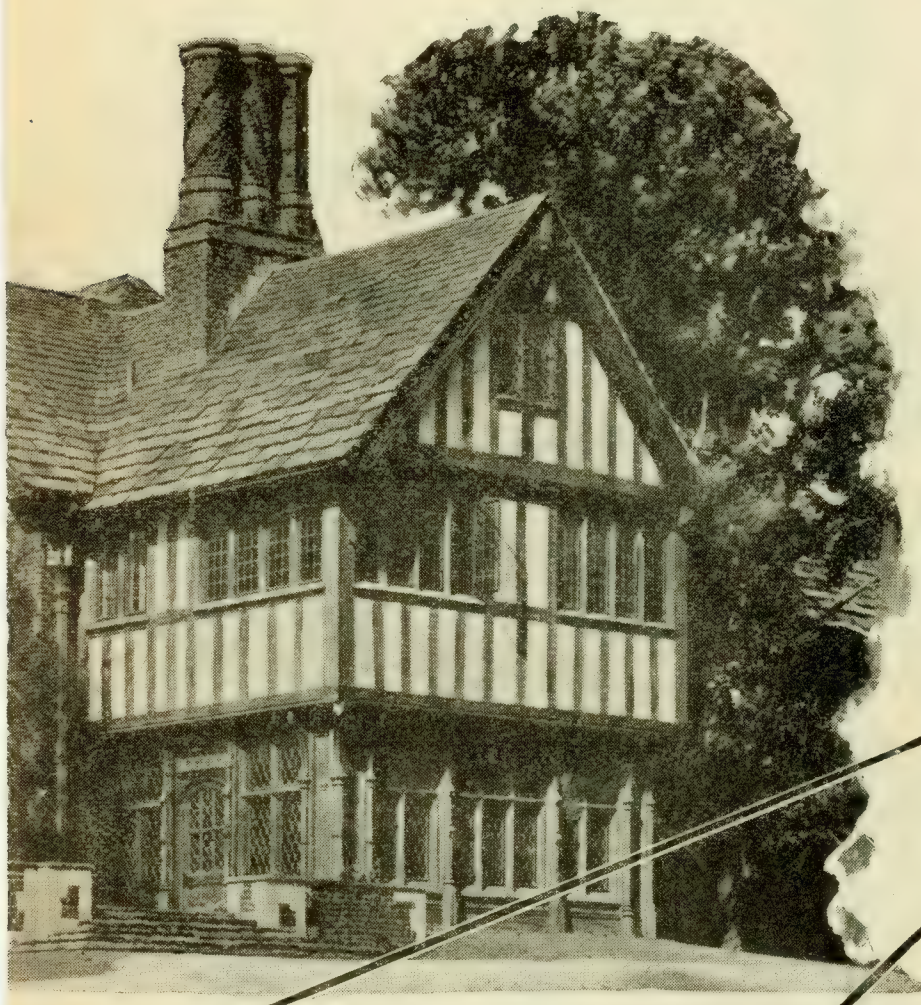


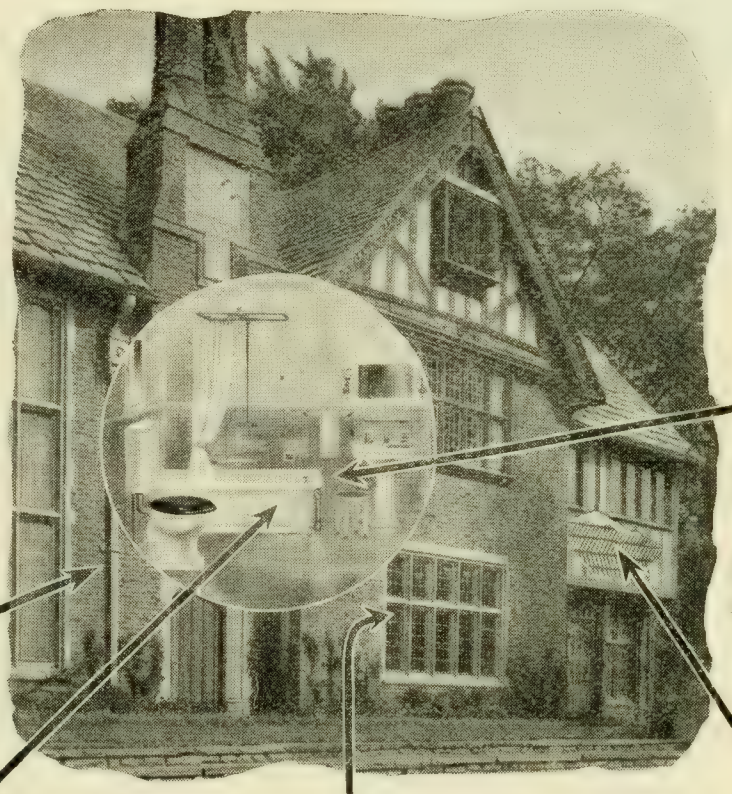


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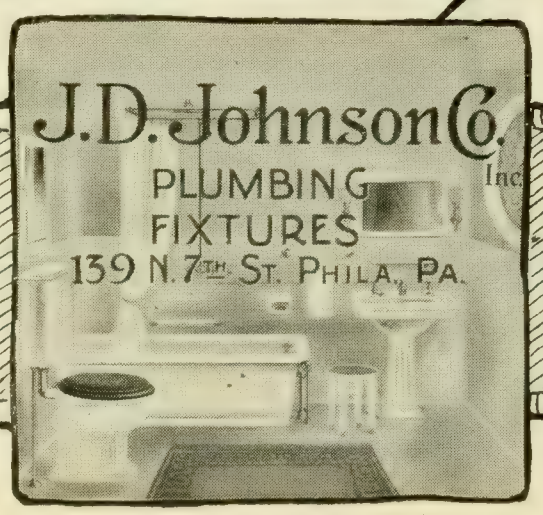


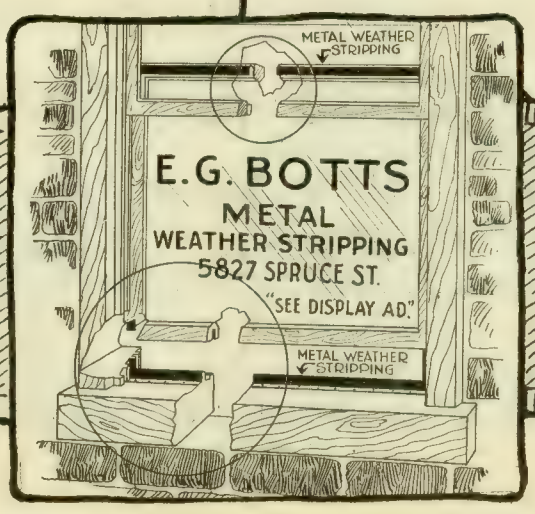


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Contract awarded to George W. Roberts, 2128 Camac street, Philadelphia.

Synagogue (alts.), 412 Lombard street, Philadelphia, $2,500. Architect, private plans. Owner, Cong. Kesher Israel, on premises. General fire repairs. Contract awarded to Harry Goldstein, 417 Lombard street.

Building (alts.), 2107 Arch street, Philadelphia, $16,000. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owners, County Commissioners, City Hall, Philadelphia. Brick work, mill work, painting, glazing, terra cotta, plastering, steam heating, metal ceilings, electric lighting, marble work, iron work. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Dwelling (alts.), 117 East Mt. Airy avenue, Philadelphia, $3,000. Architect, private plans. Owner, Mary E. Mattock, on premises. General alterations. Contract awarded to L. D. Stites, 126 Herman street, Philadelphia.

Store Buildings (alts.), 44 and 46 South Eighth street, Philadelphia, $7,500. Architects, Greisler & Abramson, Lafayette Building, Philadelphia. Owners, I. Press & Sons, Eighth and Chestnut streets, Philadelphia. Electric lighting, tile and marble work, plastering, plumbing. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Service Station, 250-252 North Juniper st., Philadelphia. Architect, Chas. E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, W. B. McCullough, Elkins Park, Pa. Brick, 2 stories, 36x100 feet, slag roof, cement floors, steam heat, electric lighting. Contract awarded to D. Henwood, 717 South Sixty-third street, Philadelphia.

Pennsylvania Construction News

Residence and Garage, Elkins Park, Pa. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Herbert Raffetto, care of architect. Stone, 2½ stories, 40x40 feet, garage, 1 story, 20x24 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric light, tile and marble work, cement work. Architect will take bids in one week.

Residence, Cynwyd, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, James Malone, Cynwyd, Pa. Hollow tile, frame and plaster, 2½ stories, 28x44 feet, shingle roof, oak floors, stone foundations, warm air heat, electric light, tile work. Plans in progress. Will be ready for bids in ten days.

Residence (alts.), Clifton Heights, Pa. Architect, private plans. Owners, Delaware County Const. Co., Clifton Heights, Pa. Brick and tile work, oak floors, mill work, enclosed porch, cement work, garage in basement, sliding doors, hardware. Owners are taking subbids.

Store Building, Main and Butler streets, Ambler, Pa. Architects, C. E. Schermerhorn and Watson K. Phillips, 430 Walnut street. Owner, Henry C. Biddle, Ambler, Pa., taking bids, due February 13th. Terra cotta and lime stone, 1 story, 12x50 feet, slag roof, pine floors, pipeless heater, electric lighting, plumbing. C. J. Kemmerer and A. L. Walton, both of Ambler, Pa., are figuring.

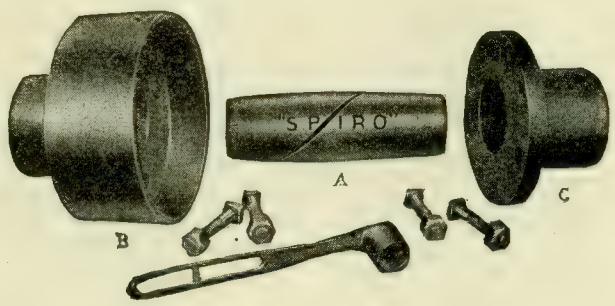
Residence, Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner's name withheld. Hollow tile

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and stucco, 2½ stories, 30x36 feet, slate roof, hardwood floors, stone foundations, hot water heat, electric lighting. Plans about completed.

Pennsylvania Contracts Awarded

Manufacturing Building and Office, Holmesburg Junction, Pa. Architect, LeRoy K. Rothschild, 1225 Sansom street, Philadelphia. Owners, Bessemer Truck Co., Holmesburg Junction, Pa. Brick and concrete, 1 and 2 stories, 100x80 feet, slag roof, maple and concrete floors, stone foundations, steam heating, electric lighting, rolled steel sash, fire doors. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Garage (alts.), Ardmore, Pa. Architect and owner, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Fire repairs, mill work, carpentry, shingle roof. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Garage, Seventh and Parker streets, Chester, Pa. Architect, W. Frisby Smith, Broad and Arch streets, Philadelphia. Owner, Wesley F. Gray, Chester, Pa. Brick, 2 stories, 45x117 feet, slag roof, cement and yellow pine floors, stone foundations, steam heat, electric light, iron work. Contract awarded to R. H. Scroggins, Chester, Pa.

New Jersey Construction News

Stores, Boardwalk and Indiana avenue, Atlantic City, N. J. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, Estate of Frederick Hemsley, Atlantic City, N. J. Brick, stucco and steel, 1 story, 80x100 feet, slag and paradox roof, maple floors, hollow tile, waterproofing, stone foundations, tile and marble work, iron work (heating and electric work reserved). Architects taking bids due February 16th. Cramp & Co., Denckla Building; Warren-Moore Co., Colonial Trust Building; Pringle Borthwick, 8018 Germantown avenue; Penn Eng. & Const. Co., Bulletin Building; Standard Const. Co., 1713 Sansom street; J. S. Bradley, 2508 South Cleveland avenue, and J. M. Yardley, 1716 Sansom street; Potts Bros. & Cooperson, 129 North Eleventh street, all of Philadelphia; F. W. Markland, Philip G. Hannum and Wilbur Beaumont, all of Atlantic City, N. J., are figuring.

Store and Apartment, 417 Kaighn avenue, Camden, N. J. Architects, The Kaplan, Greenstein Co., 717 Walnut street, Philadelphia. Owner, Samuel M. Goldstein, on premises. Brick and terra cotta, 2 stories, 20x92 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile and marble work. Architects will be ready for bids in three weeks.

Residences (2) and Double Garage, Ventnor, N. J. Architects, The Kaplan & Greenstein Co., 717 Walnut street, Philadelphia. Owners, Robert M. Cantor and L. M. Seiver, Ventnor, N. J. Hollow tile and stucco, 1½ stories, 26x41 feet and 26x51 feet, garage, 1 story, 21x35 feet, asbestos shingle roof, stone foundations, hot water heating, electric lighting, tile work, pine and cement floors. Owners are ready for sub-bids.

Residence, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Albert Collier, Bordentown, N. J. Brick, 2½ stories, 23x40 feet, brick foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. lans in progress.

Horticulture Building, New Brunswick, N. J., $75,000. Architect, F. H. Bent, Cauitol Building, Trenton, N. J. Owners, State of New Jersey, care of architect. Brick and concrete, 2½ stories and basement, 136x68 feet, slate roof, reinforced concrete floors, steam heat, electric light, tile and marble work, hollow metal skylights, roof ventilators. Plans nearly completed. Architect will be ready for bids in three weeks.

House, 1300 West State street, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton, N. J. Owner, Sam Levin, West State street, Trenton, N. J. Brick, 2½ stories, 35x60 feet, stone foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids, due as soon as possible. Charles Smith, Samuel Siley, Wm. Ivins, J. H. Morris, and Burton & Burton, all of Trenton, are figuring.

House, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Ed. Satterthwait, Farmsworth avenue, Bordentown, N. J. Frame, 2½ stories, 25x48 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids, due February 19th. Miller & Son, E. D. Anderson, Ferimore & Firth, and A. Mitchell, all of Bordentown, N. J., are figuring.

New Jersey Contracts Awarded

Garage, Bridgeton, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, name withheld. Brick, slow burning construction, 1 story, 60x200 feet, slag roof, concrete floors, steam heat, electric lighting, concrete foundations, rolled steel sash and skylights, roof ventilators. Contract awarded to H. H. Hankins, Bridgeton, N. J.

Arena, Trenton, N. J., $100,000. Architect, R. C. Consoley, Commonwealth Building, Trenton, N. J. Owner, Newton A. K. Bugbee, Hanover street, Trenton, N. J. Brick and steel, 1 story and gallery, 76x150 feet, concrete foundations, slag roof, concrete and wood floors, steam heat, electric light. Contract awarded to N. A. K. Bugbee, Trenton, N. J.

Store (alts.), 118 North Montgomery avenue, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Mr. Frank Stone, on premises. Plate glass, tile floors, electric light, interior alterations. Contract awarded to James Birks, 224 Ardmore street, Trenton, N. J.

Delaware Construction News

Service Station, Tenth and Union streets, Wilmington, Del. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, name withheld. Concrete, steel and ornamental terra cotta, 2 stories, 131x250 feet, slag roof, cement floors, hollow tile, metal lath, (1) elevator, steam heat, electric light, rolled steel sash, hollow metal sash fire doors.

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Architect taking bids due February 13th at 5 P. M. J. E. Healy & Son, Joseph Hamilton and H. D. Watts Co., all of Wilmington, Del.; F. A. Havens & Co., 845 North Nineteenth street; E. J. Kreitzburg, 1345 Arch street, and M. H. McCloskey, Jr., Inc., 1620 Thompson street, Philadelphia, are figuring.

Residence and Garage, Centreville, near Wilmington, Del. Architects, Mellor & Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Christopher L. Ward, Wilmington, Del. Stone, 2½ stories, 76x74 feet, garage, 24x40 feet, shingle roof, pine and cement floors, stone foundations, tile and marble work, iron work (heating and electric work reserved). Architects taking bids due February 19th at noon. R. C. Ballinger & Co., 218 North Thirteenth street; J. Sims Wilson Co., 1125 Brown street; J. S. Cornell & Son, Morris Building, Philadelphia, and Stewart Willey Co., Wilmington, Del., are figuring.

Miscellaneous Construction News

Hotel, Roanoke, Va. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Viscose Co., Roanoke, Va. Reinforced concrete, brick, terra cotta and steel, 3 stories, 191x118 feet, slate roof, composition and maple floors, metal lath, metal weather strip, waterproofing, iron work, iron stairs, fire doors, rolled steel sash, hollow metal skylights, marble work, concrete foundations (heating and electric lighting reserved). Architects taking bids due February 16th at Philadelphia office. Chester Construction Co., Otis Building, Philadelphia; P. J. Phipps, Roanoke, Va.; J. F. Barber & Sons, Roanoke, Va.; C. W. Hancock, Lynchburg, Va.; John Pettyjohn, Richmond, Va., and A. M. Walkuple, Richmond, Va., are figuring.

Residence, Irving Park, Greensboro, N. C. Architect, Charles Barton Keen, Bailey Building ,Philadelphia. Owner, C. B. Penney, Greensboro, N. C. Hollow tile and stucco, 2½ stories, 40x65 feet, concrete foundations, Spanish tile roof, hardwood floors, vapor heating, electric lighting. Plans about completed. Will be ready for bids in a few days.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 31, 1920.—Sealed proposals will be opened in this office at 3 P. M., March 29, 1920, for the construction of the United States Post Office and Custom House at Apalachicola, Florida. Drawings and specifications may be obtained after February 16, 1920, from the custodian of the site at Apalachicola, Florida, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 2, 1920.—Sealed proposals will be opened in this office at 3 P. M., March 3, 1920, for alterations, etc., to the United States post office and customhouse at Oswego, N. Y. Drawings and specifications may be obtained from the custodian at the building or at this office, at the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 108.)

through restrictive legislative action by following a course strictly limited to considerations of "expediency." This regard for "expediency," which is clearly to be observed in every phase of the activity, is set up by the spokesmen of the city-planning movement as constituting a meritorious attribute which should appeal to the conservative and to those who are inclined to the perpetuation of the *status quo ante.*

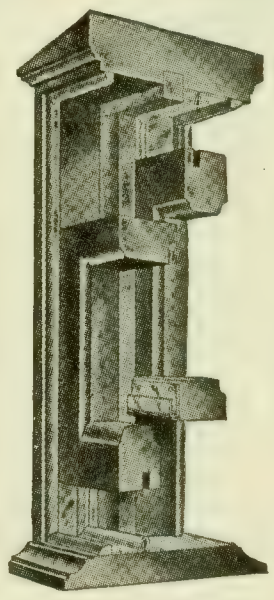
For in the past it has been the conservatives and those particularly interested in holding the ground already secured who have largely controlled the affairs of government and the economic situation in general and, naturally, any program of action which fails to be accorded a high rating among such as hold to the conservative point of view would not stand any very good chance of immediately becoming effective, and hence the advocacy of what is rated as "expedient" is set up as a "fundamental principle." To be more specific one of the "fundamental principles" set forth for guidance in connection with the preparation of zoning ordinances, and the like, is that any scheme which is to be advocated should give due regard—in fact, it should above all recognize those "normal tendencies" of city growth.

This, perhaps, is as good an illustration as need be given in support of the contention that the entire movement, as now staged, is so based upon considerations of "expediency" as to amount to inhibition or stultification.

POLITICAL EXPEDIENCY VS. REAL PROGRESS

Zoning, like all other measures of a restricted character, is supposed to be directed toward the curbing of definite, well-established or "normal tendencies" which have resulted from the freedom of action that is guaranteed in certain fundamental political documents and supported by judicial decisions. By restrictive action, such as is exercised in the zoning of cities, for example, an exterior authority, so far as the individual is concerned, is created to step in and limit action. Since that group of problems with which we are confrontetd in our malad-

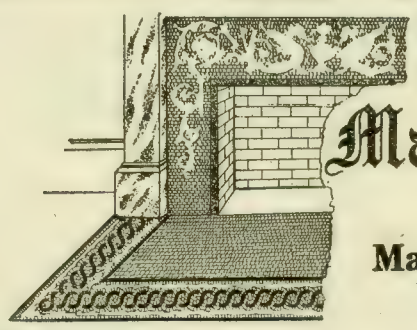
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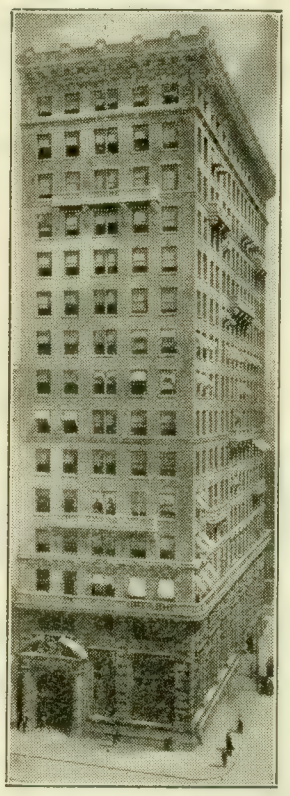
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justed urban centers arises out of the so-called freedom of action of individuals, it would appear reasonable to assume that what we need to check is no less than those "normal tendencies" which arise out of the comparative freedom of action of individuals. But this does not appear to be the conclusion of the spokesmen of the movement, for while it is generally stated that the problem is to be solved by restrictive legislative action, it is at the same time stated as a "fundamental principle" that by restrictive action we should not thwart "normal tendencies." Of course, this may be using an illustration in which other considerations may very properly be taken into account by way of qualifications; but for the question at hand, it should be sufficiently accurate.

It is this attitude of projecting a future upon the basis of the *status quo ante* which effectively thwarts progress and prevents the acquisition of any accurate knowledge concerning what are the causes which work for present maladjusted conditions. It is a pure assumption that out of present tendencies better conditions in the future may be created; what evidence there is at hand points clearly in the opposite direction.

The inclusion of considerations of "expediency" among the "fundamental principles" which should direct the work of those professionally engaged in the work of city planning, or which are to be used in the work of stimulating public opinion, lifts the entire activity right out of the field of scientific research and investigation, and lodges it in the field of politics. This statement is not made with a view of depreciating the value of considering a program of action in terms of practical politics; it is rather presented with a view of pointing out that any scientific study of causes cannot properly be rated as such so long as it takes possible political consequences into account in the formulation of its conclusions. This is precisely the error into which the spokesmen of the movement have fallen in their attempt to organize the so-called "fundamental principles" of city planning. The so-called "fundamental principles" are merely suggestions of what is deemed to be politically expedient at the present juncture. At the present juncture what is deemed politically expedient is action, which coincides with "normal tendencies;" and "normal tendencies" are obviously the cause of our trouble. Translated into workaday English, "normal tendencies" represent the right of the individual to use the community as a machine for procuring individual profits and benefits, without regard to what happens to the community. That is why we have maladjusted communities. That is why we shall continue to have them, so long as the spokesmen of city planning continue to proclaim that adjustment can be had without touching the sacred causes of the maladjustment.

UNWARRANTED ASSUMPTIONS

"Normal tendencies" is merely descriptive of developing situations which now prevail and are clearly evident upon superficial examinataion. Action in any field takes a direction determined always by the resultant of the forces acting upon that field. That the more powerful of the forces which gives rise to a situation are beneficent does not follow; and hence any assumption that "normal tendencies" or tendencies which may be said to be characteristic of a developing community will result, if followed, in a better condition is not warranted.

Hence, it is that a study of the forces out of which the present maladjustments have arisen, should be the focus toward which inquiry should be directed, and an inquiry of this nature would concern itself with causes and not with prospective political situations. An inquiry of this nature would reveal the prospect, likewise, of what would likely be the outcome of any attempt to deal with these causes by other methods than that of allowing them to operate in comparative freedom —which is what is meant by saying that in our schemes of restrictive legislation we should above all recognize and allow "normal tendencies."—*Journal of the American Institute of Architects.*

WHAT IS A FAIR HOUSE RENT?

Builders are More Interested in House Rents Than Anyone Else, Because the Earnings of Buildings Lies at the Root of Building Enterprises— This Story Analyzes the Reasonableness of Higher Rents, according to Leslie H. Allen, of the Aberthaw Construction Co.

Landlords all over the country are in trouble with their tenants, because they find it necessary to raise rents. Ordinarily it is a mere question of supply and demand, and many a landlord has boosted his figures about as much as he thought the "traffic would bear." But when we examine the real facts in the

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sitation, what do we find? While there have been many cases of apparent extortion, the fact remains that rents have increased, on the average, not over 20 per cent., in a period which has seen foods, clothing, and other items of expense go up from 75 to 150 per cent. Because other things have increased in price is no reason for advancing rents. But how is the building owner situated with respect to operating costs on his property?

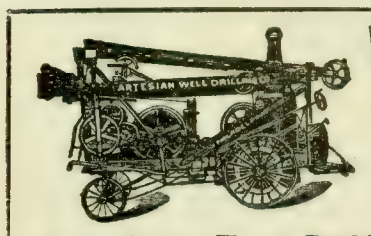
As a typical case, let us consider a two-family house built in 1900, which has five rooms downstairs and seven rooms upstairs. It cost the owner $6,500, of which $1,000 was land and $5,500 was house complete. He invested $3,000 cash and placed the other $3,500 on a mortgage. His assessment on the property was $5,000. What rent should he obtain from the two "halves" of the house? The fact that he actually rented these two portions at $25 and $30 respectively, or a total of $55, has no direct bearing on the answer to the above question, says Leslie H. Allen, of the Aberthaw Construction Co. of Boston, for it furnishes no evidence that the owner properly analyzed his costs or made adequate allowance for the future.

Let us examine the owner's costs and what ought to be his earnings, both in the light of prices and conditions as they existed in the first fifteen years of this century, what they are today and what promises to be tomorrow's scale.

His mortgage at 6 per cent. (the prevailing rate in 1900 to 1915) would cost him $210 per year. His taxes at $20 per thousand per year would cost him $100. If we allow $25 for insurance and water, this makes standing fixed charges of $335 per year, which have been practically maintained year after year, with only slight upward changes during the past few months. His minor repairs, which may be estimated at about $20 a year under the old conditions, are now at least $35 for identically the same amount of work. While the growing decay of the house would normally make repairs much more necessary today than ten or fifteen years ago, this figure of $35 will be used in the comparison. There is no janitor, and each tenant provides his own heat.

Any building owner who rents his property must pay from that rental his mortgage interest, insurance and water rates and the minor repairs necessary from time to time. Ordinarily those are the only items considered in arriving at a proper rental figure; but the owner, who is something of a financier—using the word in the most commendatory sense—looks farther ahead than this. He knows that the outside of his house requires painting every three years; that the inside requires painting and papering every ten years. He knows that in twenty years, more or less, he will have to put in new furnaces, put on a new roof and thoroughly overhaul his entire system of plumbing. It is these items of infrequent occurrence, but of large aggregate amount, which the ordinary small house owner or landlord fails to appraise or appreciate until they strike him a knock-out blow by their sudden necessity.

The cost of painting the outside of the house, which would have been about $150 in the earlier years, would be around $320 today. The cost of papering and painting the inside has likewise advanced from about $300 to $500. The installation of two new furnaces, one for each tenant, would have cost about $200 ten or twelve years ago; today they cannot be put in for less than $300. If new roofing had been required before prices went up it would have cost about $220; today the figure would be nearer $360. New plumbing, in so far as renovation would be necessary at the end of twenty years, would today cost no less than $500, in place of the $400 before the



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These items, occurring at infrequent intervals, would not show in the owner's balance sheet normally until they had to be met. The farsighted owner, however, would make provision in advance, count up his cost, measure his cost and provide in his rent each year's pro rata share for each of these several items, which he knows are coming on as relentlessly as death and taxes. Under the earlier schedule of prices, as well as under the new, his yearly carrying charge for these items will be about as follows:

	1910	1920
Painting outside of house ...	$50	$107
Painting and papering inside.	30	50
New heating plant.....	10	15
New roofing	11	18
Renovating plumbing	20	30
Minor repairs, annual	20	35
	$141	$255

During the period of low prices, now well behind us, the owner would have required $476 per year to cover his interest, taxes, insurance, water and the pro rata share of the renovations covered in the above table. In addition to this, he should have had enough income from the house to pay him a satisfactory percentage upon his investment of $3,000 cash. What should this percentage of return be?

He could have invested his money in the early years of this century in any one of a number of thoroughly good stocks which would have paid upwards of 6 per cent., and would have incurred no business risk—no risk of vacancies, no risk of dissolving in smoke and no risk of sudden damage from any one of a dozen sources which might affect the house. If it be assumed that insurance would take care of his fire risk, let us remember that while it might reimburse him for the actual cost of his building. it would not pay him his rental during the six-months period of rebuilding, all of which would be a total loss. To cover all of these items, it would only be fair for the owner to obtain perhaps 10 per cents upon the actual cash investment of $3,000. Adding to this $300 to his average annual outlay, we find that the rent of the two parts of the building under the old condition of prices should have brought some $776, or approximately $65 per month. This might be split into $30 and $35 respectively for the two parts of the house, or $5 more for each part than was actually charged in the case under consideration.

As the owner has not received what we shall have to recognize as an adequate rental during the earlier years of the life of his building, he has not been able to accumulate a fund for depreciation as the building gradually wears out. This being the case, his rebuilding or renovating program must necessarily come from capital rather than from previous earnings, and this definitely adds to his actual investment in the property—an addition which should share equitably in the annual earnings. Unless such a property has earned enough to provide in advance for contingencies, it is not on a healthy or thoroughly stable basis, and cannot be expected to act as a stimulant to the investment of money in such enterprises.

With the present high prices for every element entering into repairs and upkeep, the condition has changed considerably. In place of $141 for renewals, we find that such renewals as will have to be made from now on should be provided for at the rate of $255 per year. This makes his total fixed charges, so to speak, $590 per year. Adding his normal 10 per cent. return on his investment, we have a total of $890 per year or $74 per month. This might be apportioned at $34 and $40, for the two parts of the building, and even then does not cover the failure of past rentals to provide for the present high prices of roofing, plumbing and heating renewals. But the owner has carried the building more than fifteen years at a rate altogether too low to permit him to make the necessary renewals under present prices, and still come out whole on his investment. If, therefore, he were to raise the rent to say $80, or $36 and $44 for the two parts of the house, which is not quite 50 per cent. above the old rental figures, he would be obtaining for his property no more than it should bring him.

It will be noted that his $55 per month, or $660 per year, leaves him only $70 per year as return on his investment, when present prices are considered. This is only 2 1-3 per cent. Will any one argue that that is a fair return on money invested in an enterprise of ordinary business hazard?

There appears no indication that costs of operating and maintaining buildings will dimnsh. The cost of labor is continually rising, and it may well be that next year will see the upkeep figures decidedly higher than they are today, with a correspondingly greater deficit to be made up, due to insufficient rents in past years.

It may perhaps be unreasonable to expect tenants to look at the matter from this point of view. They have been accustomed to apportioning their outgo on the basis of a certain amount for rent and certain other amounts for other purposes. An increase of 40 or 50 per cent. in one of the major items of expenditure will inevitably call forth strenuous protests. (We have been accustomed to consider rent as absorbing from one-fifth to one-fourth of wages and of small salaries.) Pure fairness, however, Mr. Allen maintains, requires that both sides of the question be examined and that a rental be fixed which will be fair alike to the owner and to the tenant. The average tenant would reject with scorn any suggestion that he pay a portion of the proper rent and receive the balance as a charity gift. Yet that is exactly the situation, when he pays less than the properly ought in all fairness to bring, however strong his disinclination to pay more than he has been paying in the past.

Because rents are now too low on buildings, and because of the tenants' opposition to permitting them to reach a logical figure, building for renting purposes holds no attraction for investors. The cost of construction is so much higher today than it was at the time our example was erected than a fair rental on a new building would be much higher than on the old. This is precisely a fact which tenants do not desire to recognize; but just as long as money has to be spent in the upkeep of a building and to pay for taxes and insurance on the building, and interest on money borrowed for its erection, just so long will it be necessary to fix a rental high enough to cover all of these items, and leave a fair profit for the man who provides the housing accommodation.

—National Builder.

Making Public Work Attractive.

By O. P. CHERDRON.

In the Members' News-Letter of October 18, I note that President Garber has been appointed Chairman of the Finance Committee for the organization backing the movement for the establishment of a National Department of Public Works. In my opinion, the successful outcome of this campaign would mean a great step toward the uplifhting of the contracting profession.

While such a movement is very commendable, it occurs to me that the present method of letting public work is wrong, and if the Swiss method of letting public work were adopted, I believe many more responsible and reliable contractors would be willing to undertake public work. As not all may be familiar with this plan, I will describe it briefly.

In Switzerland, contractors of standing and proved reliability are invited to compete for public work, and before a contractor is invited, he has to have an established reputation for fairness in his

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dealings and competency in his profession. No bidders will be admitted except upon invitation by the public board.

After such a public board has received the bids, it will not let the work to the lowest bidder nor to the highest bidder, but it will let it to the bidder who is closest to the average bid received. For instance, on a project involving the expenditure of $200,000 there are received by the public board in Switzerland five bids. The bids range as follows:

A	$196,000.00
B	218,000.00
C	212,500.00
D	197,368.00
E	217,950.00
Total sum of all bids ..	$1,041,818.00
Average bid	$ 208,363.60

In this case bidder "C" would get the business. If a contractor should try to throw the average bid up or down by juggling, his bid would be rejected and, if he cannot prove that he made an honest mistake, he would forfeit his right to bid on future public work for a certain period of time. For instance, should bidder "A" bid $120,000,000 instead of $196,000.00 and should bidder "B" bid $310,000.00 instead of $218,000.00 those two bids would be rejected by the board, and those two bidders would not be allowed to bid for a certain length of time on any work. Their bids would not be considered in the general average on this particular set of bids.

If the Swiss method of letting work were generally adopted, it would in my opinion help very much toward the elevation of the contracting profession.—*Bulletin of Associated General Contractors.*

* * *

STANDARDIZE CONTRACT FORMS

Associations Should Present Good Practices Instead of Condoning Present Methods.

By A. P. Greensfelder.

Secretary, Fruin-Colnon Contracting Company.

An abundance of opportunities is offered for productive work by the Associated General Contractors of America—we'll agree to that. The only question that may arise concerns which problems should receive attention first; I suppose the answer is to go after each with a definite program, concentratnig on those that circumstances bring to the front. Certainly one of the foremost problems is that of improving contracts.

The attitude taken by some of the engineering associations and societies toward establishing standard forms of contracts has been disappointing. Their position apparently has been that the contractor should beware of what he signs; then if he finds himself in trouble, he should hire a lawyer to extricate him, or stand his losses without a word. All very good, but if he wants to be a contractor, he must sign a contract now and then, whether it be fair or unjust.

We cannot concur that it is wise to have lawyers contine to defend bad practices. We believe that it is up to progressive associations to present good practices. Contracts that are equitable and fair to both parties tend to reduce legal controversies. We do not take issue so much with specifications drawn by the older and more experienced engineers and architects, but rather with those presented by the younger and inexperienced men employed by smaller communities. Contact with contractors usually proves that they are human and of a rather decent sort, and can be treated fairly without danger of their walking off with the buildings they have agreed to erect.

It surely would seem to be the province of an association as enterprising and progressive as the American Water Works Association, for example, to protect the interests of water works owners by drafting an equitable form of contract—one that reputable contractors would have no hesitancy about accepting. I mention the American Water Works in particular because that organization has a Committee on Standard Form of Contract. Enforcing the use of such a contract would be necessary, as custom will gradually bring it into current use, as has been demonstrated by the forms adopted by the A. I. A.

With the Associated General Contractors of America now in the field with a vigilant eye upon the contractor's interests, one may hope that a series of standard forms of contracts will be developed in which the contractor and the engineer receive equal consideration.—*Bulletin of Associated General Contractors.*

* * *

DIVIDING LINE BETWEEN ARCHITECT AN ENGINEER

What is the dividing line between the work of engineers and of architects, and is an architect justified in accepting work which is usually regarded as being strictly within the sphere of the engineer, or vice versa?

Naturally members of both professions do not look with favor on what may be called encroachments on their particular fields; and doubtless both could put up strenuous arguments to prove that work which may be on the border line comes within their own special province.

For example, there are engineers, sometimes termed construction engineers, who make a specialty of designing and supervising factories and warehouses—buildings which do not call for architectural beauty, but for great structural strength and design to meet the needs of given industries. Architects might contend that members of their profession are capable of designing such plants, while engineers will be equally emphatic that such buildings involve little or no architectural knowledge and are purely within the domain of the engineer.

The general question of engineers' and architects' work was recently discussed by the Montreal branch of the Engineering Institute of Canada, the discussion being based on a report that the county authorities at Pittsburgh had given commissions to two firms of architects to design and supervise the construction of two large bridges, one with a 500-foot span. Written comments by members on the subject were read. These, with one exception, were emphatic in their condemnation of this action, and some members even advocated a policy of boycotting should the practice become more general.

Fortunately the discussion at the meeting was on more conciliatory lines, and according to *Contract Record,* a trade journal published in Toronto, the general feeling was that the subject was one for co-operation, not for measures which would create antagonisms between the professions. It was frankly admitted by members of the Quebec Architects' Association, that such large bridges as were referred to were within the province of engineers, but it was pointed out that many bridges designed by engineers were lacking in beauty, which defect could have been obviated by consulting architects. Each profession had its own field and when an engineer, in designing a bridge, desired to make it architecturally beautiful, he should call in an architect as consultant.

The opinion was expressed that while the design of bridges was a matter for engineers, the latter had often sadly lacked a sense of aesthetic beauty in making their designs. Some of the bridges were downright ugly.

Times have changed, and now people look for beauty as well as utility, and as a means to these ends what could be better than the combined talents of the architect and the engineer?—*Architect and Engineer.*

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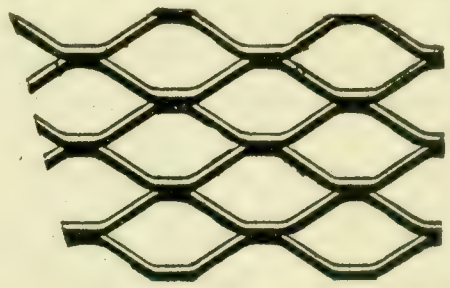
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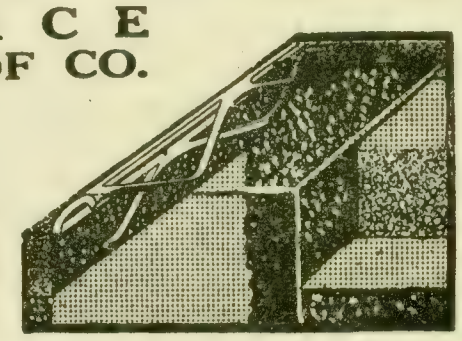
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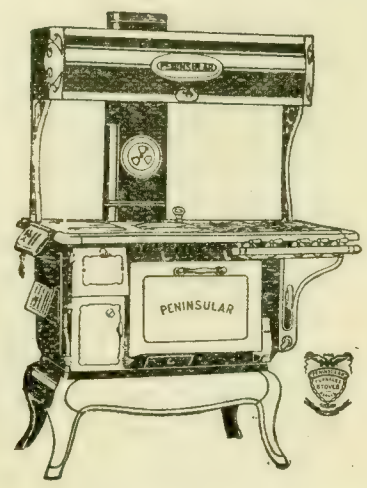
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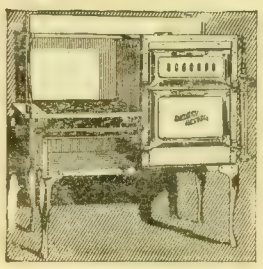
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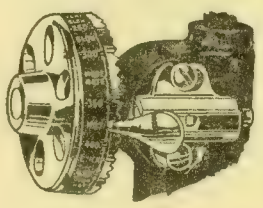
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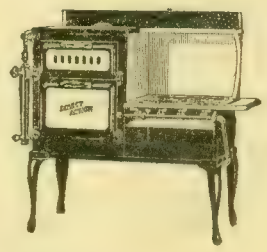


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Entered at the Philadelphia Post Office as Second-Class Matter

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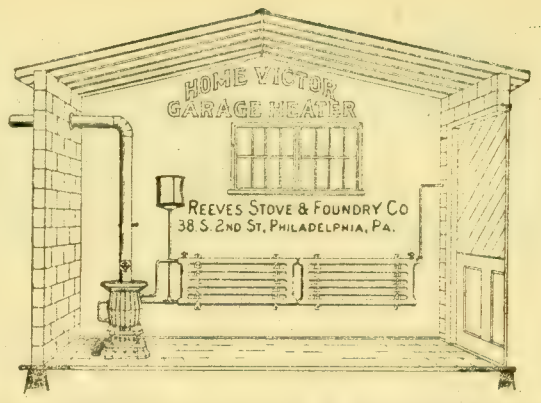
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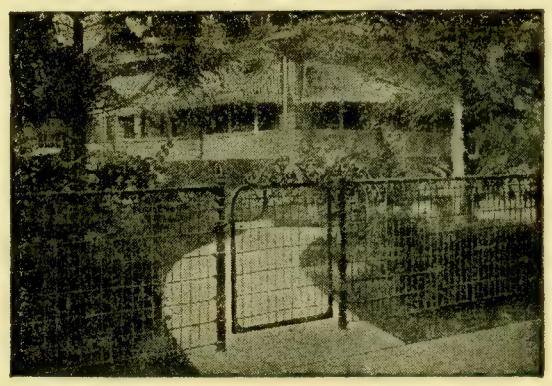


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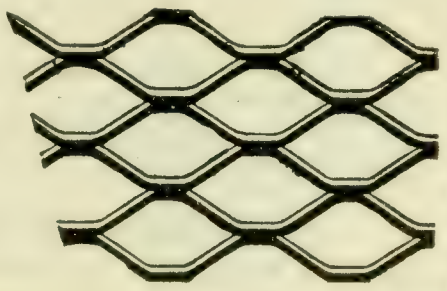
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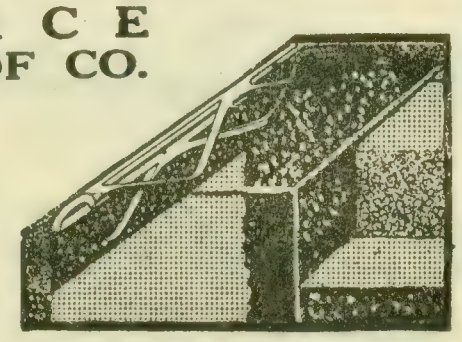
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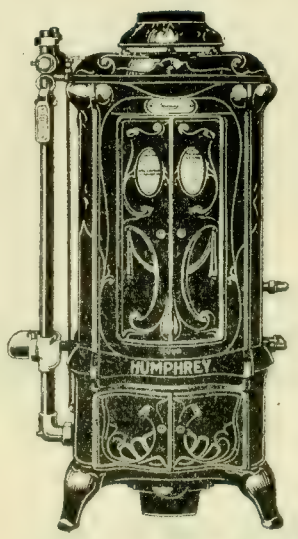
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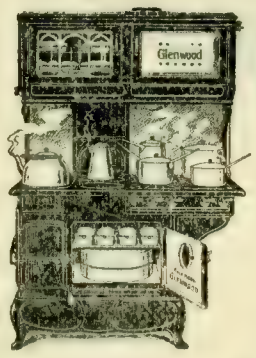
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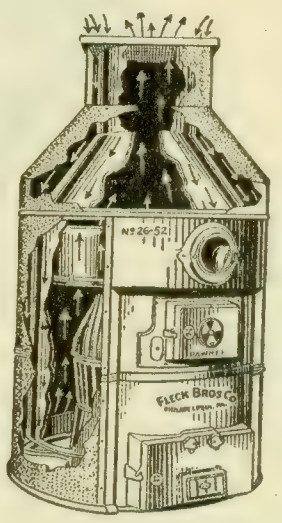


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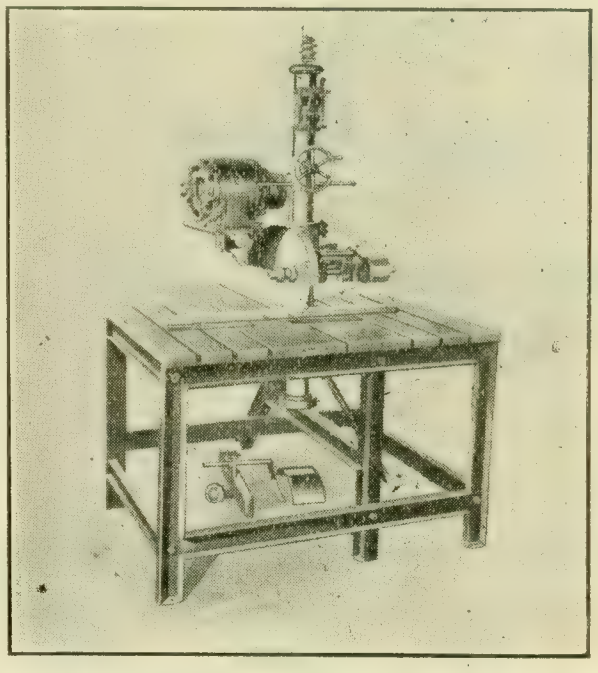
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 7

PHILADELPHIA
February 18, 1920

BUILDERS' GUIDE

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As The Editor Sees It

IN line with the suggestions made in the GUIDE in the issue of January 1st, the Builders Exchange has taken steps toward promoting co-operation of the many firms, corporations and individuals connected with the building industries of Philadelphia. This is the psychological time to inaugurate such a movement, as this year will undoubtedly present many opportunities for the development of closer affiliation as the extensive construction work in prospect bids fair to make this year the greatest in the records of the city.

An effort to secure new members of the Exchange will be made and it is hoped that all firms or individuals in any way allied with the building trades will be alive to the importance of making the Exchange a really valuable organization for the solving of problems daily confronting the industry. Weekly luncheons will again be inaugurated and the Entertainment Committee has plans for many get together occasions.

Due to the recent resignation of the secretary of the Exchange, James A. Barrett, a new secretary Camillurs Phillips, was elected and an assistant secretary, Charles H. Trommer.

Mr. Barrett's services were helpful to the members, but as his work was always limited, due to the authority vested in him, Mr. Barrett could not do many things that his iniative prompted. The two new secretaries will have plenty of opportunity to do many services for the members of the Exchange individually and for the organization as a body. If, however, their hands are tied too tightly they may be delayed in developing the Exchange to the highest degree of usefulness.

In announcing these elections, together with the committees of the Exchange named for the current year, Major Edwin E. Hollenback, the president, said:

"Philadelphia and its people confront this year a condition that is without precedent in every phase of the problem of shelter. The physical health, the moral welfare and the industrial efficiency of our entire population are vitally involved in the problem of providing adequate housing and other larger units of construction. This is a year when the need of materials vastly outruns supply. It is the year when urgent necessity compels us to make up, in really large measure, for the five years of inactivity in building forced on us by the war. It has been conservatively estimated that we will build to the amount of $150,000,000 during 1920. We will. But we will only by means of a co-operation among all branches of the building industry, such as has never been previously attained.

"The Master Builders' Exchange, as the only local institution of sufficiently broad scope, must assume the responsibility for effecting the close understanding and the vigorous team action required. It was exceptionally fortunate in having as president during the years 1918 and 1919, Mr. O. W. Ketcham, who, foreseeing the conditions now besetting us, so guided policy of the Exchange that we attack our problems with the ground cleared of its most formidable obstacles. He consented to act as chairman of the Membership Committee, this year one of major importance, in enlisting the services of those hundreds of new members whose help is called for not only by the Exchange, but by the public for the fulfillment of the building program that is outlined."

The committees appointed to serve for 1920 are as follows:

Executive—W. Nelson Mayhew, chairman; John R. Wiggins, Benjamin F. John, Calvin I. Leiper, Edwin E. Hollenback, O. W. Ketcham and George J. Watson.

Finance—Benjamin F. John, chairman; Edward Lupton, Edward A. J. Evans, Joseph M. Steele, O. W. Ketcham and George J. Watson.

Legislative—John R. Wiggins, chairman; Barclay White, Henry E. Baton, John S. McQuade, F. M. Harris, Jr., Joseph M. Steele and J. H. Cowperthwaite.

Arbitration—C. I. Leiper, Barclay White, W. Johns Stevens, Constantine Belfi, J. P. Thompson, Howard McGinley, Frank G. Pate, Harry Quay, Joseph

(Continued on Page 140.)

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Manufacturing Building (add.), Southwest corner Sixth and Tabor road, $185,000. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Proctor & Schwartz, on premises. Reinforced concrete and steel, 4 stories, 145½x73 feet. Plans filed in Bureau of Building Inspection by owner.

Office and Apartments, Northeast Corner Chelten avenue and Greene street, Germantown. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, Lewis H. Cahan, The Clinton, Philadelphia. Brick, stone (slow burning construction), 3 stories, 90x132 feet, slag roof, steam heat, electric lighting. Plans in progress.

Residences (9), Thirty-third and Turner streets, Philadelphia. Architect ,E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Isen, Cohen & Roetenberg, 2100 North Eighth street, Philadelphia. Brick, 2 stories, (3) 17x65 feet, (6) 16x41 feet, slag roof, hardwood floors, hot water heat, electric lighting, tile and marble work. Owners will be ready for sub-bids in a few days.

Motion Picture Theatre, Fox Chase, Philadelphia. Architect, Edmund D. Salter, Parkside and Wynnefield avenues, Philadelphia. Owner, name withheld. Brick, 1 story, 50x120 feet. Preliminary sketches being drawn.

Store Building (alts.), 1525 Chestnut street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, A. Pomerantz & Co., on premises. Alterations to 4th floor, brick work, steel work, dampproofing, carpentry, mill work, brass work, plastering, hardware, metal lath, painting and glazing. Architects taking bids. H. E. Baton, 1713 Sansom street; H. H. Burrell, 206 South Quince street, and Jacob Myers & Sons Co., Witherspoon Building, are figuring.

Jewelry Store (alts. and add.), 39 North Thirteenth street, Philadelphia. Architect, E. L. Rothschild, 1011 Chestnut street, Philadelphia. Owners, M. Simon & Co., on premises. Alterations to heating and lighting, fixtures, parquetry floors, cabinet work, hollow metal skylights, flush bulks, window guards, new balcony, ornamental plastering, floor and wall cases, steel vaults. Architect will take bids in a few days.

Office Building (alts.), 1511 Walnut street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, West & Co., 1417 Chestnut street, Philadelphia. General alterations. Plans in progress. Too early for details.

Apartments (9), Seventeenth and Butler streets, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, 18x35 feet, slag roof Architect will be ready for bids in a few days.

Residence (alts.), 1015 North Sixty-third street, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owner, J. Maguire, care of architect. General interior alterations. Architect has received bids.

Store and Offices, Northeast Corner Sixteenth and Sansom streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Keller Eng. Service, Otis Building, Philadelphia. Brick, steel and stone, 4 stories. Plans in progress.

Bank (alts. and add.), second floor add., Germantown, Philadelphia. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, Germantown Trust Co., Germantown and Chelten avenue, Germantown. Brick, cut stone and steel, 20x58 feet, composition roof, pine floors, metal lath, steam heat, electric light, tile and marble work, hollow metal sash, iron work. Architects taking bids due February 24th. H. H. Burrell, 206 South Quince street; F. Elvidge & Son, 5522 Germantown avenue; George S. Roth & Son, 230 Gravers lane; William J. Gruhler & Co., 219 High street; Pringle Borthwick, 8018 Germantown avenue, are figuring.

Smoke House (add.), Thirtieth and Race streets, Philadelphia. Architect, C. B. Comstock, 110 West Fortieth street, New York City. Owners, F. G. Vogt & Sons, Thirtieth and Race streets, Philadelphia. Concrete, brick and steel, 2 stories, 26x22 feet, stone foundations, concrete floors, composition roof, roof ventilators. Owners have received bids.

Store Building, 827-29 Arch street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Schwartz & Noble, 311 South Fifth street, Philadelphia. Brick, steel, stone and granite, 2 stories, 34x141 feet, slag roof, pine floors, metal lath, elevators, waterproofing, stone foundations, tile and marble work, rolled steel sash and skylights, hollow metal doors, iron work. Architects taking bids due February 21st. William R. Dougherty, 1610 Sansom street; F. E. Wallace, 1220 Chancellor street; F. A. Havens & Co., 845 North Nineteenth street; J. M. Yardley, 1716 Sansom street, and Ketcham & McQuade, 1029 Brown street, are figuring.

Residences (30), Fifth and Chew streets, Philadelphia. Architect, Karl F. Otto, Foulkrod and Oakland streets, Philadelphia. Owner, Henry W. Bauer, Fifth and Chew streets, Philadelphia. Brick and stucco, 2 stories, 16x34 feet, slag and slate roof, hardwood floors, metal lath, hot water heating, electric lighting, tile work, garages in basement, cement work. Plans in progress.

Stores and Apartments (8), Fifty-second and Chester avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Steltz & Maloney, 1208 Chestnut street, Philadelphia. Brick, 3 stories, 19½x60 feet, slag roof, hardwood floors, cement work, garages, brick, 1 story, 19½x17½ feet, stone foundations, hot water heat, electric lighting, hollow metal skylights, flush bulks, tile and marble work. Owners will be ready for sub-bids in a few days.

Resiednces (35) (16 prs. Twins and 3 Detached and Twin Garages), Roosevelt Boulevard and Castor road, between Dyre and Pratt streets, Philadelphia, $375,000. Architect, Karl F. Otto, 3253 North Thirteenth street, Philadelphia. Owner, Harry R. Moyers 2035 E. Allegheny avenue, Philadelphia. Brick and stucco, 2½ stories, 18x50 feet, Spanish tile, shingle tile and variegated slate roof, hardwood floors, stone foundations, hot water heat, electric light, tile work. Owner taking sub-bids.

Manufacturing Building, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Standard Crown Co., Hope and Palmer streets, Philadelphia. Brick, slow burning construction, 1 story, 62x200 feet, wing 16x20 feet, composition roof, stone foundations, steam heat, electric lighting, rolled steel sash, plumbing, cement and mineral flooring. Architects taking bids due as soon as possible. A. R. Raff Const. Co., 1635 Thompson street; Pomeroy Const. Co., 1609 Ranstead street; Alex. Chambley, Twenty-first and Summer streets, and Charles Gilpin, Harrison Building; M. H. McCloskey, Jr., Inc., 16'0 Thompson street; Davis & Clayton, Inc., 1817 North Twentieth street, are figuring.

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Office Building, Northeast Corner Thirty-fourth and South streets, Philadelphia. Architect, not yet selected. Owner, University of Pennsylvania Athletic Alumni, care of Maj. Pickering, University of Pennsylvania, Thirty-fourth and Spruce streets. Brick, stone and steel, 2 stories. Work contemplated.

Bridge, Forty-ninth street, over P. B. and W. R. R., Fortieth Ward, Philadelphia. Engineer, private plans. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Director John C. Winston, 416 City Hall. Brick, with grading, paving and appurtenant work. Owners taking bids due February 20th at noon. Monaghan & Losse, Inc., 3016 Chestnut street, are figuring.

Store and Apartments (alts.), Northwest Corner Fifth and South streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Harry Krengel, Northeast Corner Fifth and South streets. Terra cotta and tile front, hardwood floors, steam heating, electric lighting, tile work, plumbing. Plans in progress. Will be ready for bids in two weeks.

Residence and Garage, Overbrook, Philadelphia. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owner, William F. Harrity, Llamar, Forty-sixth and Walnut streets, Philadelphia. Stone and plaster, 2½



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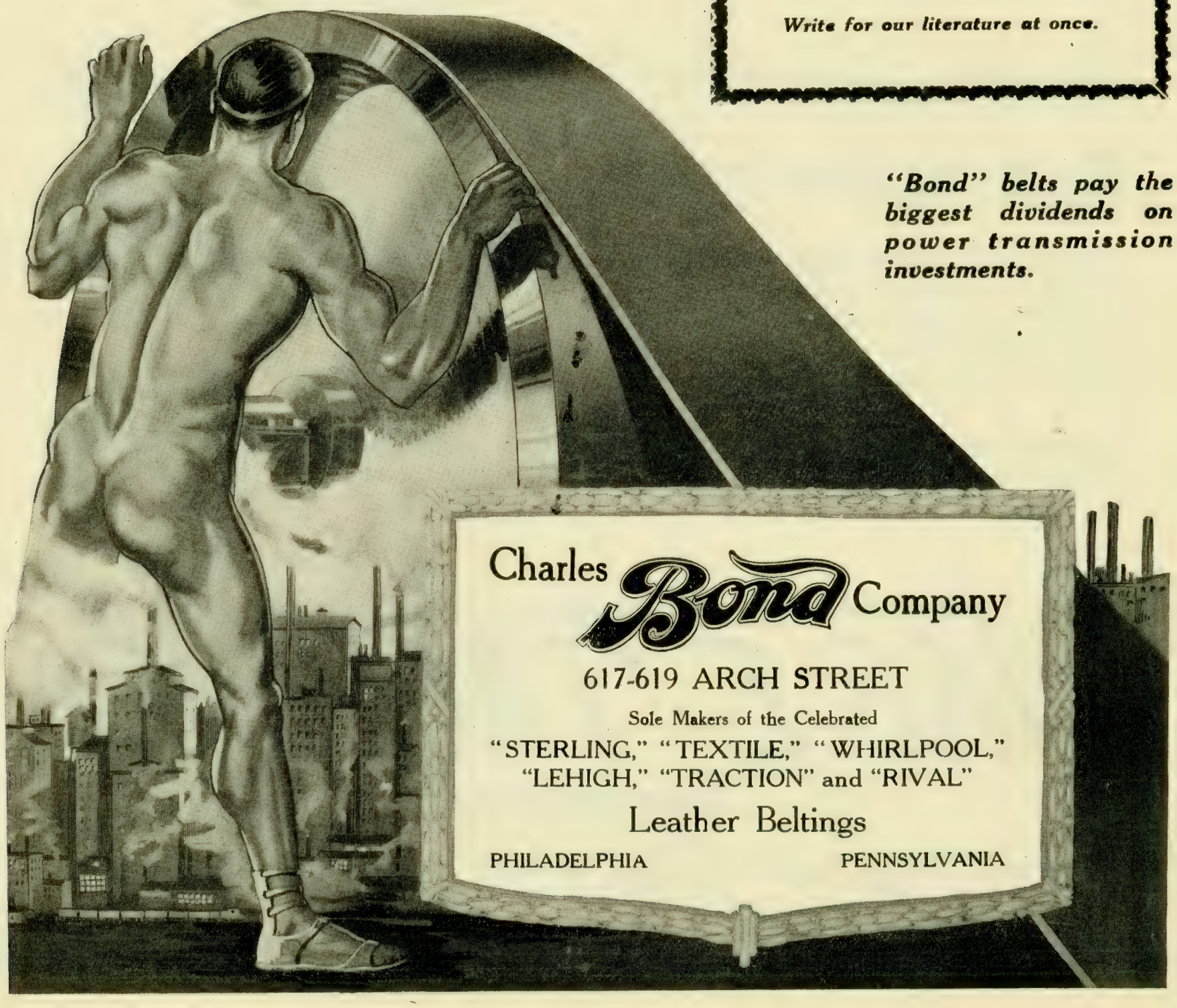
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and 1 stories, 51x35 feet, garage, 17x18 feet, shingle roof, oak and pine floors, hollow tile, tile work, stone foundations (heating, electric work and plumbing reserved), iron work. Architects taking bids due February 18th. E. J. Hedden, Finance Building; A. L. Fretz & Son, Heed Building; Monaghan & Losse, Inc., 3016 Chestnut street; William D. Smedley, Narberth, Pa.; J. D. Lengle, Wayne, Pa., and F. T. Mercer, 1706 Delancey street; F. G. Stewart, 1619 Sansom street, are figuring.

School, Wissinoming, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Bartholomew's Roman Catholic Church, care of Rev. Joseph Scanlon, Wissinoming, Philadelphia. Stone, 2 additional stories, 113x113 feet, slag roof, pine floors, steam heating, electric lighting. Architects taking bids due February 24th. William R. Dougherty, 1610 Sansom street; T. J. & J. R. Whelan, 214 South Forty-ninth street; Edw. Fay & Son, 2 South Mole street, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Manufacturing Building, Oregon avenue, Philadelphia. Architect, Wm. Higginson, 18 East Forty-first street, New York City. Owners, American Manufacturing Co., Water and Morris streets, Philadelphia. Reinforced concrete and brick. Plans in progress. Too early for details.

Factory (alts. and add.), 707 Tasker street, Philadelphia. Architect, J. E. Fieldstein, Penfield Building, Philadelphia. Owner, J. Woldow, on premises. Brick, 3 stories, 52x52 feet, slag roof, steam heat, electric light. Plans completed. Architect ready for bids.

Fatcory, Erie avenue, Frankford and Ambler streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owners, Levick & Woldow, 707 Walnut st., Philadelphia. Brick, 2 stories, slow burning construction, 63x200 feet ,slag roof, steam heat, electric light. Plans completed. Architect ready for bids.

Schools (2), Ninth and Oregon avenue and Seventieth and Buist avenue, Philadelphia. Architect, private plans. Owners, Board of Education, care of Wm. Dick, Nineteenth above Chestnut street, Philadelphia. Brick and reinforced concrete, ' stories and basement, 218x98 feet each, concrete foundations, composition roof, cement floors, hollow tile, tile and marble work, rolled steel skylights, roof ventilators, iron work (heating, plumbing and electrical work reserved). Owners taking bids, due March 3rd, 12 M. $25.00 deposit. Cramp & Co., Denckla Building; Standard Const. Co., 1713 Sansom street; M. H. McCloskey, Jr., Inc., 1610 Sansom street, and Wm. R. Dougherty, 1610 Sansom street, are figuring.

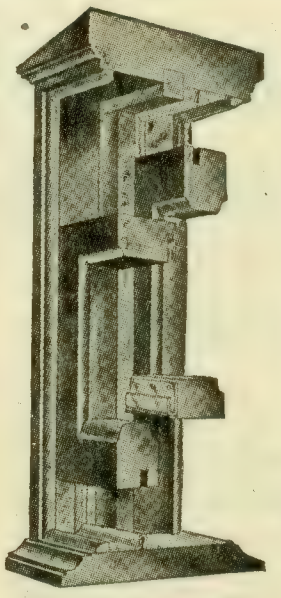
Garage, 1912 Spruce street (rear), Philadelphia. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owner, C. Russell Hinchman, 1912 Spruce street, Philadelphia. Brick, 1 story, 22x25 feet, stone foundations, slag roof, cement floors, garage heating system, electric lighting, iron work. Architect taking bids, due February 20th. F. G. Stewart, 1619 Sansom street; Wm. R. Dougherty, 1610 Sansom street; T. C. Trafford, 1613 Sansom street, and Wm. J. Gruhler Co., 219 East High street, Germantown, are figuring.

Residence and Garage, Chestnut Hill, Philadelphia. Architect, Herbert J. Wetherill, 430 Allen Lane, Mt. Airy, Pa. Owner, Mrs. W. Beaumont Whitney, 146 East Walnut Lane, Philadelphia. Stone and steel, 2½ stories, 45x32 feet, wing 32x17 feet. Garage, 1½ stories, 21x13 feet, stone foundations, shingle roof, oak, pine and cement floors, electric light, tile work, metal lath, iron work (heating reserved). Architect taking bids, due February 24th. Stokes Bros., 6723 Musgrave street; H. E. Baton, 1713 Sansom street; Wm. J. Gruhler Co., 219 East High street; R. C. Ballinger Co., 218 North Thirteenth street; Wm. C. Wright, 22 Harvey street; F. B. Davis, 240 North Sixteenth street; Specht & Sperry, Heed Building, and Wolver & Co., 28 East Willow Grove avenue, are figuring.

Warehouse (alts.-, 130 Chestnut street, Philadelphia. Architects, DeArmond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owners, H. H. Skerrett & Co., on premises. Plastering, millwork, carpentry, painting, glazing, new bulk window, tin roof, oak and maple floors, steam heat, electric light, 1 electric elevator. Architects taking sub-bids.

Factory (add.', Seventh and Lehigh avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Hardwick & Magee Co., Seventh and Lehigh avenue, Philadelphia. Brick, slow burning, 3 stories, 60x120 feet, slag roof, wood floors, steam heat, electric light, metal lath, rolled steel sash, fire doors, metal window guards. Architects ready for sub-bids.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store and Office Building, Southeast Corner Fifty-second and Chestnut streets, Philadelphia. Architects, Hoffman-Henon Co., Inc., Finance Building, Philadelphia. Owner, name withheld. Brick, terra cotta, 2 stories, 117x40 feet, composition roof, pine floors, metal lath, waterproofing, ornamental iron work, stone foundations, electric lighting, tile and marble work (heating reserved). Contract awarded to Keystone State Const. Co., Franklin Bank Building, Philadelphia.

Rooming House (alts. and add.), Southeast Corner Spruce and Quince streets, $10,000. Architect, private plans. Owner, James R. Price, care of builder. Brick, 4 stories, 16x9½ feet, and 3 stories, 25x22 feet, slag roof, electric lighting, pine floors. Contract awarded to Price Const. Co., 1414 South Penn Square, Philadelphia.

Dwellings and Stores (3), 217-19-21 South Fifth street, $30,000. Architect, private plans. Owners, Ethel Rottman, 2506 Natrona street, Philadelphia. Brick, 3 stories, 15½x70 feet and 12½x28 feet, 18x28x70 feet and 15x28 feet, slag roof. Contract awarded to David Epstein, 4252 Parkside avenue.

Store Building (alts. and add.), Southeast Corner Fortieth and Poplar streets, $4,000. Architect, private plans. Owner, E. Eisenberg, on premises. Brick, 1 story, 20x7 feet. Contract awarded to A. Rubin, 1127 Thompson street, Philadelphia.

Garage, 239 Harvey street, Philadelphia, $2,050. Architect, private plans. Owner, Howard Ketcham, on premises. Stone, 1 story, 23x23 feet, slate roof, cement floor, electric lighting. Contract awarded to William C. Wright, 22 Harvey street, Philadelphia.

Bottlery, Edward and Sophia streets, Philadelphia, $1,000,000. Architects, Pecuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, C. Schmidt & Sons Brewing Co., 127 Edward street, Philadelphia. Reinforced concrete, 3 stories, 182xirregular sizes, slag roof, stone foundations, tapestry brick and terra cotta, tile floors, hollow tile, metal lath, elevators, steam heat, electric lighting, rolled steel sash and skylights, fire doors. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Saloon (alts.) to Confectionery Store, 1842 Market street. Architects, Boyd, Abel & Guggert, Otis Building, Philadelphia. Owners, E. J. & R. J. Harley, on premises. New front, interior alterations, new store fixtures. Contract awarded to F. T. Mercer Co., 1706 Delancey streets, Philadelphia.

Garage (fire damagee), Forty-third and Woodland avenue, Philadelphia, $16,200. Architect, private plans. Owner, A. W. Shields Estate, Witherspoon Building, Philadelphia. Lessees, Parcel Post Department, United States Post Office, Ninth and Chestnut streets. General renovation and repair of fire damage. Contract awarded to D. Henwood, 717 South Sixty-third street, Philadelphia.

Mill (add.), 4971 Wakefield street, Philadelphia, $2,450. Architect, private plans. Owners, Armstrong Knitting Mills, on premises.

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Brick, 1 story, 17x50 feet, slag roof, cement work. Contract awarded to Bell & Weir, 131 West Sharpnack street, Germantown.

Factory (alts. and add.), Southeast Corner Seventh and Race streets, Philadelphia, $5,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Frank V. Chambers, 212 North Thirteenth street, Philadelphia. Brick, 1 story, 13x24 feet, slag roof. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

Maternity Building, Thirty-sixth and Spruce streets, Philadelphia. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Carpentry, terrazzo and marble work, hardware, painting, glazing, metal lath, repairing floors (electric work and heating reserved). Contract awarded to Henry E. Baton, 1713 Sansom street, Philadelphia.

Dwelling (alts. and add.) to Apartments, 4946-48 Griscom street, Philadelphia, $8,500. Architect, private plans. Owner, Mary Hub, 4862 North Broad street, Philadelphia. Brick, 3 story rear add., 16x14 feet and 16x33 feet. Contract awarded to George Rimer, 4842 Hawthorne street, Philadelphia.

Residence (add.), 51 North Fifty-second street, Philadelphia. Architect, private plans. Owners, Myrtle Vooght, on premises. Brick, 1 story front add., 12x10 feet, and 2 story rear add., 5x12 feet, slag roof, electric lighting. Contract awarded to William H. Heim, 55 North Fifty-second street, Philadelphia.

Garage, 6655 McCallum street, Philadelphia, $3,500. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, W. E. Trump, on premises. Stone, 1 story, 23½x24 feet, slate roof, cement floors, electric lighting. Contract awarded to William J. Gruhler, 219 High street, Philadelphia.

Garage, Third and Cambridge streets, Philadelphia, $32,000. Architects, Greisler, Abramson Co., Lafayeette Building, Philadelphia. Owner, Harry Weinriech, care of architects. Brick and steel, 1 story, 55x198 feet, slag roof, cement floors, metal lath, stone foundations, vapor heat, electric lighting, rolled steel sash, rolling steel doors, iron work. Contract awarded to Robbins Cont. Co., 1137 North Front street, Philadelphia.

Store and Dwelling (alts. and add.), 623 Bainbridge street, $10,000. Architect, private plans. Owner, A. Gottlieb, 621 Bainbridge street, Philadelphia. Brick, 3 stories, 15x50 feet, slag roof, pine and hardwood floors, electric lighting. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Store and Dwelling (alts.), Southwest Corner Second and Reed streets, $3,300. Architect, private plans. Owner, M. Goldstein, 1413 South Second street, Philadelphia. New flush bulks, plate glass and interior alterations. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Store and Dwelling (alts.), 1330-32 South street, Philadelphia, $3,000. Architect, private plans. Owner, N. Fisher, on premises. New flush bulks, plate glass, painting, interior alterations. Contract awarded to A. Rubin, 1127 Thompson street, Philadelphia.

Store and Dwelling (alts. and add.), 2554 South Seecond street, Philadelphia, $2,600. Architect, private plans. Owner, J. Brafman, 2552 South Second street, Philadelphia. Brick, 2 stories, 11x16 feet, slag roof, pine floors. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Store and Dwelling (add. and alts.', 611 S. Sixtieth street, $7,800. Owner, Samuel Cohen, on premises. Brick, 2 stories, 13x18 feet. Contract awarded to M. Rozinsky, 520 Dick-

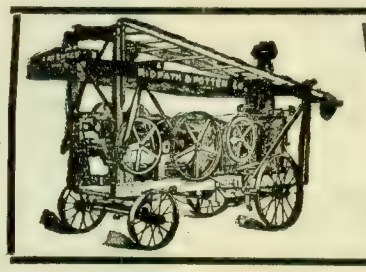


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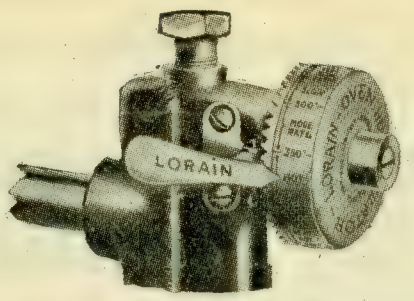
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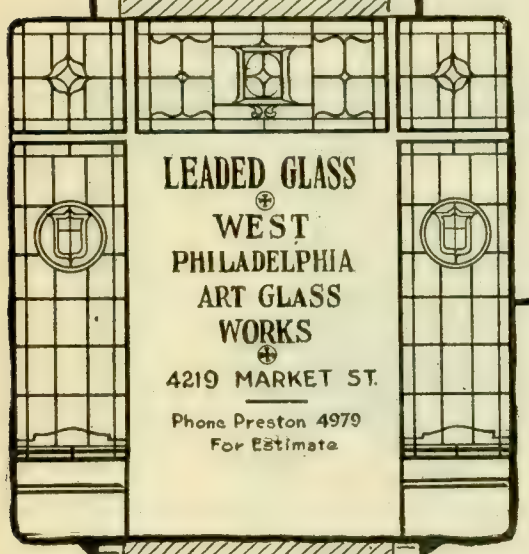
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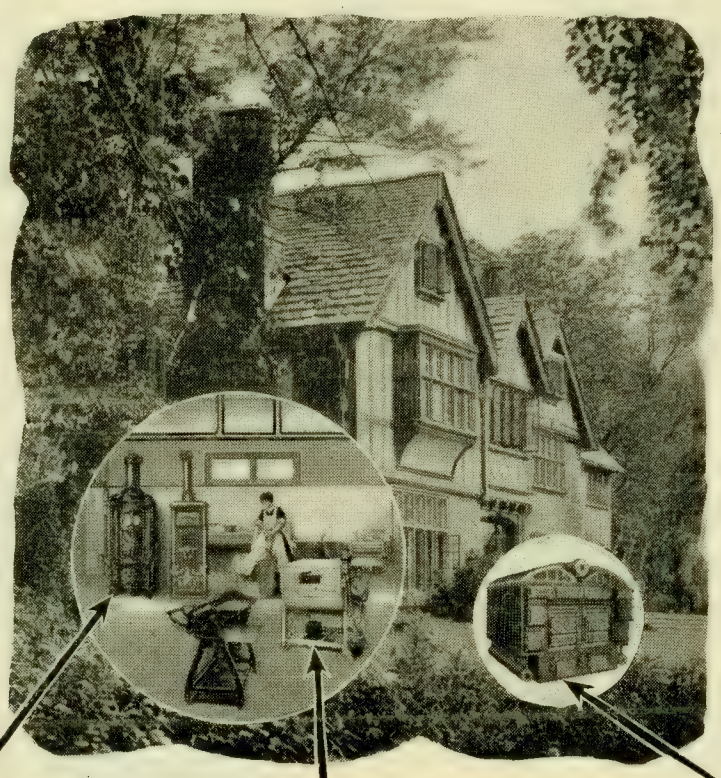


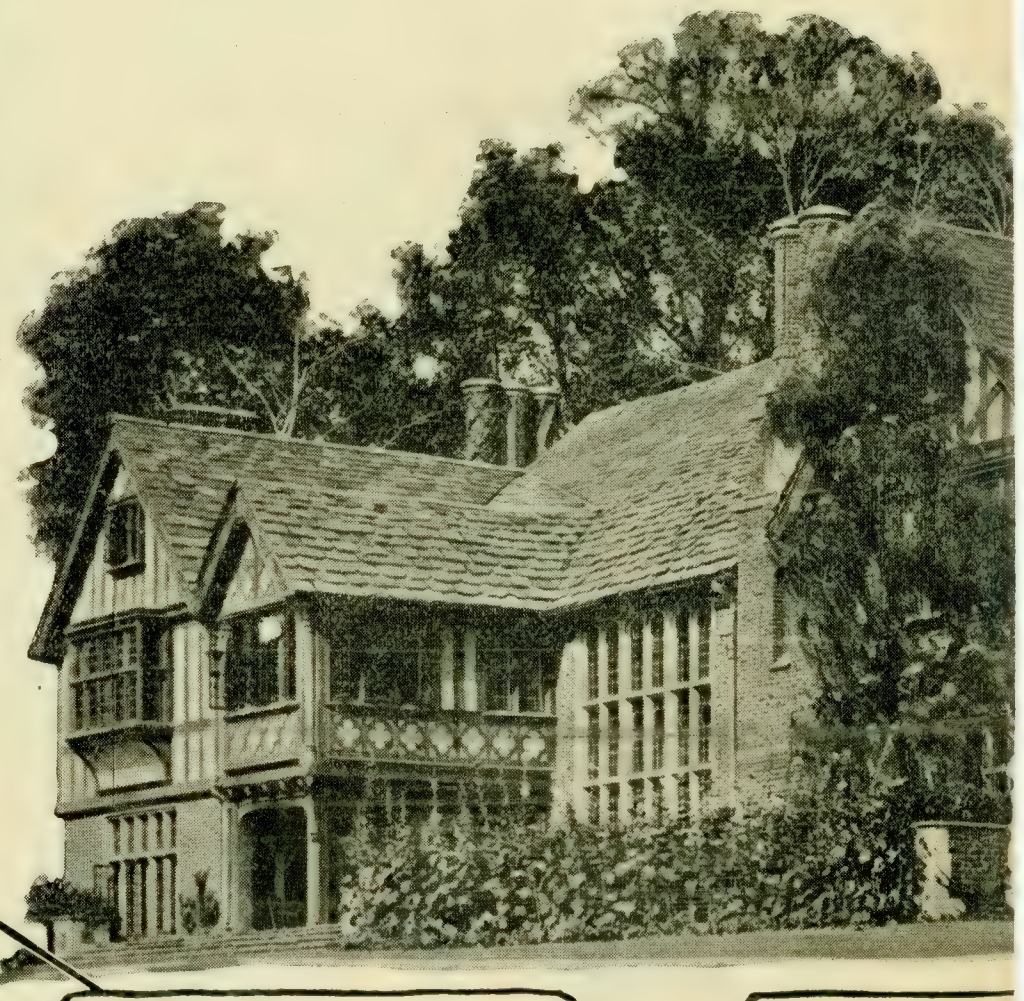


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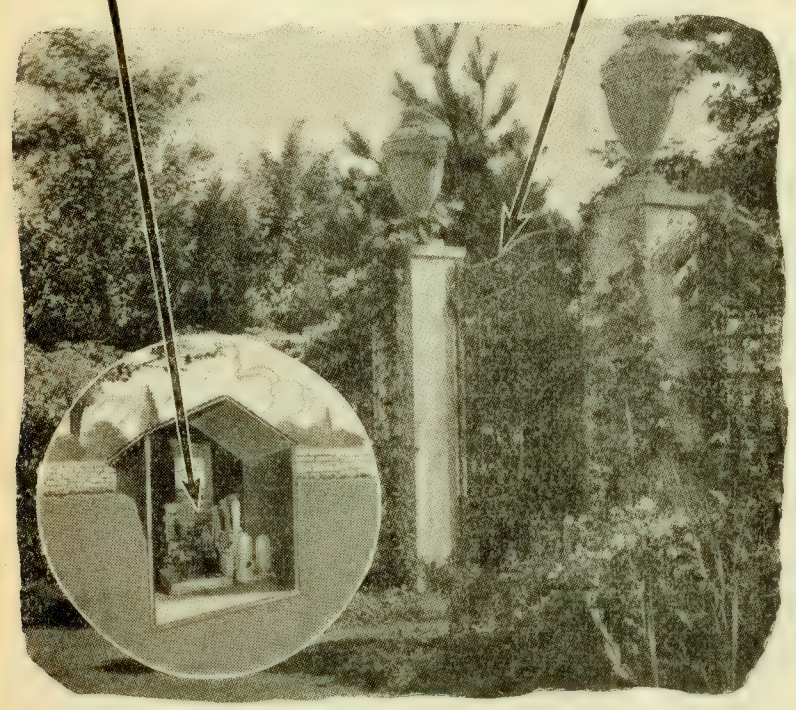
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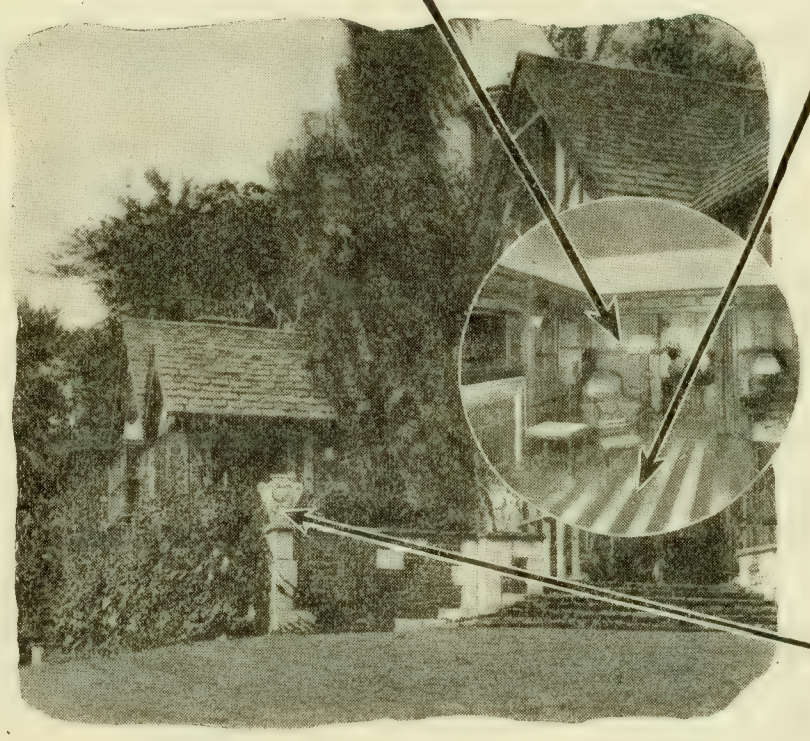
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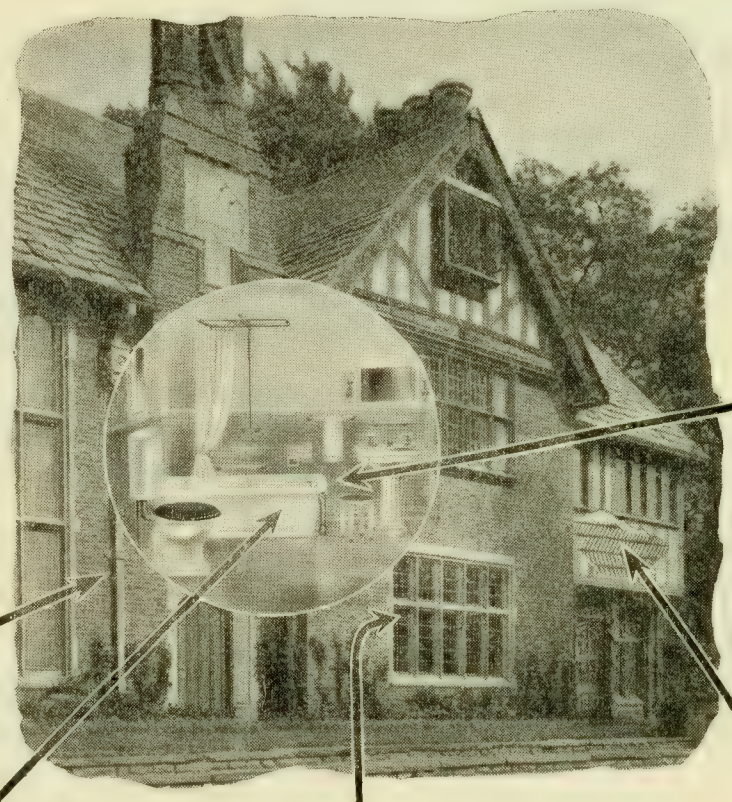
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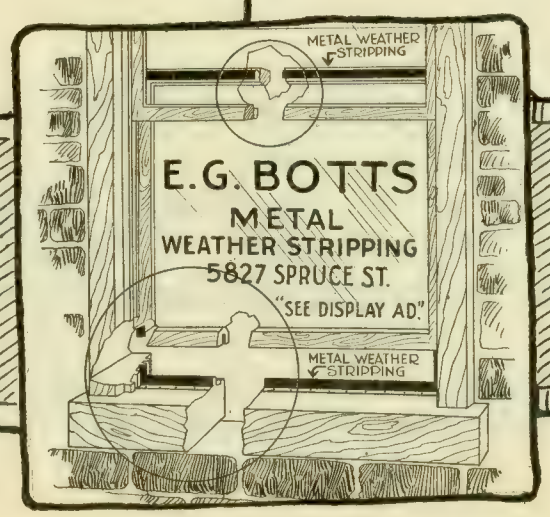
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Store (alts., 137 Market street, Philadelphia, $2,000. Owners, Kahn & Lockett, on premises. General alterations, new bulk front, millwork, carpentry. Contract awarded to A. MacTavish, 1515 Pine street, Philadelphia.

Pennsylvania Construction News

Residence, Rosemont, Pa. Architect, C. M. Lovelace, Bethlehem Trust Building, Bethlehem, Pa. Owner, A. C. Dickerhoff, Allentown, Pa. Hollow tile and stucco, 3 stories, 34x38 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

School, Oxford, N. J. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Oxford Township School Board, care of Charles P. Casson, secretary, Oxford, N. J. Brick, 2 stories, 48x65 feet, concrete foundations, slate roof, maple floors, electric light, tile work, hollow metal skylights, roof ventilators. Plans in progress.

Warehouse, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Slow burning construction, 1 story and basement, 80x120 feet, gravel roof, wood floors, electric light, elevators. Revised plans in progress.

Silk Mill, Pottsville, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Phoenix Silk Mfg. Co., Race and Court streets, Allentown. Brick, mill construction, 4 stories, 150x50 feet, stone foundations, slate roof, plank and gumwood floors, electric light, rolled steel sash, fire doors, elevators, waterproofing. Architect has received bids.

Residence, Palmer Township, Pa. Architect, William Michler, Drake Building, Easton, Pa. Owner, Mr. Chitman, Easton, Pa. Stone, frame, 2 stories, 68x68 feet, shingle roof, hardwood floors, electric light, tile work. Architect taking bids due as soon as possible. Bechtel & Bechtel, Easton, Pa., figuring.

School (add.), Freemansburg, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Freemansburg School District, William Snyder, secretary, Freemansburg. Brick, 2 stories, 31x64 feet, stone foundations, slate roof, maple floors, steam heat, electric light, roof ventilators. Owners taking bids due February 23rd. Groman Bros., Bjork Blom Riccoretti, both of Bethlehem; Butz & Clader, Allentown, Pa., and Benjamin Ryman, Phillipsburg, Pa., are figuring.

Residence, Cloverdale, Pa. Architect, George K. Myers, 1610 North Sixteenth street, Philadelphia. Owner, Mrs. Ladner, care of Mr. Stehn, 633 Market street, Philadelphia. Hollow tile and plaster, 1½ stories, 27x40 feet, shingle roof, pine floors, stone foundations, hot air heat, electric lighting. Owner taking bids. J. E. Kearney, 34 South Seventeenth street, Philadelphia, is figuring.

Locker House, Edge Hill, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, North Hills Country Club, on premises. Stone and frame, 2 stories, 36x78 feet, wing 21x44 feet, electric lighting. Plans about completed. Architect will be ready for bids February 21st.

Bank and Apartments (alts. and add.), Mt. Carmel, Pa. Architects, Richter-Lee Co., 32 South Seventeenth street, Philadelphia. Owners, Lehigh State Bank, care of John Dropeski, president, Mt. Carmel, Pa. Stone and

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brick, 3 stories, 50x80 feet, tile and oak floors, metal lath, electric lighting, tile and marble work, incinerator and vault doors. Will be ready for bids in two weeks.

Residence, Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, J. Henry Bartow, Lansdowne, Pa. Hollow tile and stucco, 2½ stories, 30x36 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting. Architect taking bids due February 20th. J. Howard Roberts, Lansdowne, Pa.; J. Mahoney, Oak View, Pa., and Delaware County Const. Co., Clifton Heights, Pa.; Bowden Cons. Co., 1713 Sansom street, Philadelphia, are figuring.

Residence (alts. and add.), Merion, Pa. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, H. H. Swope, Merion, Pa. Brick, 2½ stories, tile roof, plastering, mill work, plumbing, hot water heating, electric lighting, stone foundations. Architect has received bids.

Residences (2), Nos. 32 and 33, Cynwyd, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Frame and plaster, 2½ stories, 46x25 feet, 39x32 feet, shingle roof, oak and pine floors (electric lighting, plumbing and heating reserved). Architects taking bids due February 23rd (approximate). J. E. Kearney, 34 South Seeventeenth street, is figuring.

Store and Residence (alts. and add.), Coatesville, Pa. Architects, Richter Lee Co., 32 South Seventeenth street, Philadelphia. Owner, W. A. Patterson, Coatesville, Pa. Brick and stone, 2½ stories, electric lighting. Plans in progress.

Residence and Garage, Broadway, between Merion avenue and Linden street, Merion, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, J. S. Wilford, Merion, Pa. Stone, 2½ stories, 29x80 feet, and 2 stories, 23x26 feet, slate roof, oak and cement floors, stone foundations, vapor heat, electric light, tile work. Architects taking bids due February 23rd. A. R .Raff Cont. Co., 1635 Thompson street; Pomeroy Const. Co., 1609 Ranstead street; Charles C. Pace, Merion, Pa.; J. E. Kearney, 34 South Seventeenth street, and Milton W. Young, Overbrook, Philadelphia; William R. Dougherty, 1610 Sansom street, Philadelphia, are figuring.

Residence and Garage, Rose Valley, Pa. Architect, Bart Tourison, 222 East Mt. Pleasant avenue, Chestnut Hill. Owner, Howard Underwood, Commercial Trust Building, Philadelphia. Stone, 2½ stories, 37x28 feet, garage, 1 story, 20x22 feet, slate roof, hardwood floors, cement work, hot water heat, electric lighting, tile work. Owner is taking bids. R. C. Ballinger & Co., 218 North Thirteenth street, are figuring.

Mother House and Academy, Dallas, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, Dallas, Pa. Brick and terra cotta, 3 stories, mother house, 320x50 feet, academy, 176x50 feet, and college, 176x50 feet, slate roof, steam heating, electric lighting. Plans in progress.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, Capitol Building, Harrisburg, Pa. Bids will be opened at 10 A. M., March 2d, 1920, on the following roads:—

Cambria County, Route 53, Allegheny and Cambria Townships, length 23,740 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Chester and Delaware Counties, Routet 133, Westtown, Willistown and Edgmont Townships, length 19,417 feet. One course reinforced concrete. Certified check $3,500.

Crawford County, Route 82, West Followfield Township, length 24,774 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

Crawford County, Route 207, West Mead Township, length 22,659 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

Fayette County, Route 117, Dunbar Township, length 20,996 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Fayette County, Route 117, North Union Township, length 18,480 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Greene County, Route 268. Jefferson Township, length 13,811 feet. One course reinforced concrete and Hillside vitrified brick.



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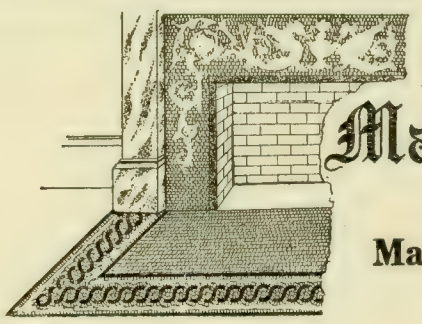
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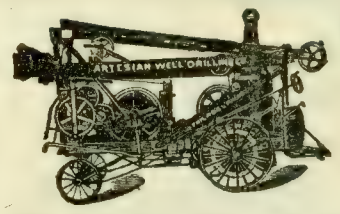
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Indiana County, Routes 223 and 314, East Wheatfield Township, length 25,030 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Jefferson County, Route 64, Union Township, length 14,385 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $3,000.

Lancaster County, Route 129, West and East Donegal, Mt. Joy, Rapho, East and West Hempfield Townships, length 82,576 feet. One course reinforced concrete. Certified check $4,000.

Northumberland County, Route 182, Ralpho Township, length 11,549 feet. One course reinforced concrete. Certified check $2,000.

Potter County, Route 236, Shinglehouse Borough, length 8,358 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $1,500.

Warren County, Appli. 793-4, Route 93, Tinioute Borough, length 12,012 feet. One course reinforced concrete. Certified check $2,500.

Proposal forms and specifications free. Plans, $2.50 per set at State Highway Department ,Harrisburg, Pa.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, Capitol Building, Harrisburg, Pa. Bids will be opened at 10 A. M., March 3, 1920, for the construction of the following roads:—

Adams County, Route 298, Cumberland and Freedom Townships, length 29,716 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Armstrong County, Route 188, Kiskimentas Township ,length 10,610 feet. One course reinforced concrete. Certified check $2,000.

Cambria County, Route 222 ,Scalp Level Borough, Richland and Stony Creek Townships, length 24,207 feet. One course reinforced concrete. Certified check $4,000.

Crawford County, Route 82, Vernon Township, length 18,619 feet. Either one course reinforced concrete and Hillside vitrified brick or two courses reinforced concrete and Hillside vitrified brick. Certified check $3,000.

Crawford County, Route 89, East Mead Township, length 18,514 feet. One course reinforced concrete. Certified check $3,000.

Delaware County, Route 131, Concord Township, length 14,992 feet. One course reinforced concrete. Certified check $3,000.

Fayette County, Route 366, Stewart and Wharton Townships, length 26,267. Either bituminous macadam penetration method on broken stone base and Hillside vitrified brick, or one course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Fayette County, Route 247, Perry and Jefferson Townships, length 14,496 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $2,000.

Lawrence County, Route 81, Pulaski Township, length 28,636 feet. One course reinforced concrete. Certified check $4,000.

Warren County, Appli. 154, Farmington and Pine Grove Townships, length 22,287 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Westmoreland County, Route 68, Derry Township, length 32,047 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Forms and specifications free and plans $2.50 per set, at State Highway Department, Harrisburg, Pa.

Residence, Springfield, Pa. Architects, Hance, Mitchell & Neely, 1619 Chestnut st., Philadelphia. Owner's name withheld. Stone, frame and stucco, 2 stories, 38x40 feet, stone foundations, shingle roof, oak floors, hot water heat, electric light. Plans in progress.

Residence and Garage, Merion, Pa., $25,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Herbert Taylor, president, Eastern Motors Corp., Broad and Wallace streets, Philadelphia. Hollow tile and stucco, 2½ stories, 28x50 feet. Garage 1½ stories, 20x20 feet, stone foundations, slate roof, hardwood and cement fl oors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in a few days.

Pennsylvania Contracts Awarded

Rectory, Willow Grove, Pa. Architect, Paul A. Moaghan, 1218 Chestnut street, Philadelphia. Owner, Mission of St. David, care of Rev. Edw. J. Curran, Mineral Springs Inn, Willow Grove, Pa. Stone, 3½ stories, 60x40 feet, slate or shingle roof, pine floors, vapor heat, electric lighting, tile work, iron and concrete work. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Academy (alts.), Villa Nova, Pa. Architects, J. J. Kennedy, Wilmington, Del. Owners, Villa Nova College, Villa Nova, Pa. Stone, reinforced concrete, 3 stories, 55x82 feet, hardwood and tile floors, electric lighting. Contract awarded to Jacob Myers & Sons, Witherspoon Building, Philadelphia.

Mill Building, Chester, Pa., $60,000. Architect, private plans. Owners, Allison & Co., Law Building, Chester, Pa. Concrete and steel, 1 story, 60x200 feet, slag roof, steam heating, electric lighting, rolled steel sash. Contract awarded to Chester Const. & Cont. Co., Otis Building, Philadelphia.

Store House (2 parts), Rutherford, Pa. Architect, private plans. Owners, Philadelphia & Reading Railway, Reading Terminal, Philadelphia. Concrete, brick and steel, 1 story, 77x40 feet and 39x40 feet, asbestos asphalt roof, concrete floors, rolled steel sash, fire doors, iron work. Contract awarded to A. Wildman, Harrisburg, Pa.

New Jersey Construction News

School Building, Stevens Station, Burlington Township, N. J. Architect, William A. Klemann, First National Bank Building, Trenton, N. J. Owners, Board of Education, Burlington Township, care of District Clerk, Elwood H. Russell, Burlington, N. J. Brick, slow burning construction, 2 stories)heat and ventilating separate bids). Owners will receive bids due March 1st at 8 P. M. in Mitchell School House, Springside, Burlington Township, Burlington County, N. J. Certified check for $250 for building and $10.00 each for heating and ventilating.

Church, Hackettstown, N. J. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, Roman Catholic Church of the Assumption, Hackettstown, N. J. Architect taking revised bids due February 24th. Gallo Brothers, Netcong, Pa.; Bechtel & Bechtel, Easton, Pa., and McLaughlin & McNally,

We have pebbles all sizes. Cost less than what you are using. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Eighty-first and Suffolk avenue, Philadelphia, are figuring.

City Hall (add.), Woodbury, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, City of Woodbury, City Hall, Woodbury, N. J. Brick, 2½ stories, 24x30 feet, slate roof and general remodeling. Plans in progress.

Schools (2), Nos. 2 and 3, Audubon, N. J. Architects, John H. Mowere and David Lang, Audubon, N. J. Owner, Board of Education, Borough of Audubon, Camden County, care of George N. Hoffman, clerk, Audubon, N. J. Brick and stone, 1 story. Owners taking bids due March 9th, at 9 P. M. (Heating, ventilation, plumbing and electric work separate bids.)

Garages (11), Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Mr. H. Keho, Princeton avenue, Trenton, N. J. Brick and hollow tile, 1 story, 25x100 feet, slag roof, cement floors, hot water heat, electric light. Plans in progress. Owner will take bids.

Garages, Park street, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Raymond Robins, Bordentown, N. J. Steel, 1 story, 78x61 feet, slag roof, concrete floors, electric lighting. Owners taking bids.

Club House, Woodcrest, N. J. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Mellody Club, care of Architect. Brick and frame, 1 story, 30x60 feet, shingle roof, steam heat, electric light. Plans in progress.

New Jersey Contracts Awarded

School (add.), Red Bank, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Board of Education, West Depford Township, Thorofare, N. J. Hollow tile, 1 story, 30x70 feet, shingle roof, maple floors, stone foundations (heating, electric light, plumbing, extensions reserved). Contract awarded to L. S. Parks, Swedesboro, N. J.

Store (alts. and add.), 203 East State st., Trenton, N. J. Architect, private plans. Owner, Ogden D. Wilkinson, on premises. Brick, 1 story, stone foundations, slag roof, general interior alterations. Contract awarded to Edward Reeger, 1423 South Broad street, Trenton, N. J.

Stores (alts. and add.), 840 Clinton street, Trenton, N. J., $4,000. Architect, private plans. Owner, J. A. Cook, Genesee and Roebling streets, Trenton, N. J. Brick, three-story addition, stone foundations, tin roof, general interior alterations. Contract awarded to Edward Reeger, 1423 South Broad street, Trenton, N. J.

Delaware Construction News

Apartment (alts. and add.), Seventh and West streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Mrs. M. Doordare, on premises. Brick, 3 stories, 25x70 feet, concrete foundations, slag roof, hardwood floors, electric light, tile work, interior alterations. Plans in progress.

Stores (alt. and add.), Eleventh and West streets, Wilmington, Del. Architect, E. C. Map, Dupont Building, Wilmington, Del. Owner, Realty Association, care of architect. Brick, 2 stories, 15x40 feet, interior alterations. Architect will take bids this week.

Service Station, Penn and Union streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Hollow tile, terra cotta, concrete, 2½ stories, 32x32 feet, slate roof, concrete floors, hot water heat, electric light. Architect has received bids.

Swimming Pool and Dressing Room, Villa Nova, Pa. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Villa Nova College, Villa Nova, Pa. Stone, 2 stories, 70x100 feet, stone foundations, tile roof, hot air heat, electric light, tile and marble work. Architect has received bids.

Delaware Contracts Awarded

Theatre, Union street, between Third and Fourth streets, Wilmington, $50,500. Architect, W. E. Hance, Wilmington, Del. Owners, West End Amusement Company, Wilmington, Del. Brick, 40x50 feet, stone foundations, slag roof, concrete and wood floors, steam heat. Contract awarded to Ernest Di Sabatino, 415 Lincoln street, Wilmington, Del.

Stores (2) and Office, Eleventh and Orange street, Wilmington, $20,000. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick, 2 stories, 40x45 feet, stone foundations, tin roof, concrete floors, hot air heat, electric light, tile and marble work, plate glass. Contract awarded to Herbert Brown, 305 West street, Wilmington, Del.

Miscellaneous Construction News

Infirmary, Atlanta, Ga. Architects, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, St. Joseph's Infirmary, Atlanta, Pa. Stone, brick and limestone, 3 stories and basement, 40x150 feet, (2) wings 120x40 feet, tile roof (roof garden). Plans in progress.

Manufacturing Buildings (20), Norfolk, Va. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Norfolk Shipyard Corp., Norfolk, Va. Details undecided. Plans in progress.

NChurch, Parish House and Sunday School, Buffalo, N. Y. Architects, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, Central M. E. Church, Buffalo, N. Y. Stone, 2½ stories, irregular size, steam heat, electric light, tile work. Details undecided. Plans in progress.

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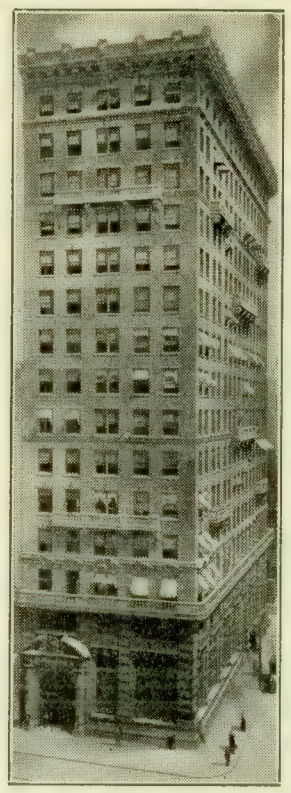
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(Continued from Page 127.)

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PLANS OF FINANCING HOME BUILDING PROJECTS

Realizing the urgent need for housing throughout the State, the Pennsylvania State Chamber of Commerce has established a Housing Bureau. The work of this bureau will be of an advisory nature and information collected by Ritchie Lawrie, Jr., the bureau chief, has led to the issuing of a pamphlet outlining six plans for community companies.

PLAN NUMBER ONE.

COMMUNITY COMPANIES.

1. *Capitalization.*—The capital funds of the Financing Company to be raised by public sale of certificates of stock. Subscriptions to be made by individuals, estates, commercial and industrial interests. Fifty per cent. of the authorized capital to be subscribed immediately and to be subject to call on reasonable notice.

2. *First Mortgage.*—The home seeker to place a first mortgage with an individual, estate or lending institution. The Financing Company to approve and assist in placing the mortgage. The mortgage to be for an amount equal to at least 60 per cent. of the total cose of the home, including the improved lot.

3. *Second Mortgage.*—A second mortgage to be assumed by the Financing Company for an amount not in excess of 30 per cent. of the total cost of the home, including the improved lot.

4. *Initial Payment.*—The home seeker applying for the loan to have in cash, land or its equivalent an amount not less than 10 per cent. of the total cost of the home, including the improved lot. This payment to be made to the Financing Company at the time the loan is negotiated.

5. *Liquidation.*—Monthly installment payments in amount of not less than 1 per cent. of the total cost of the home, including the improved lot, to be made to the Financing Company by the home seeker to meet the interest charges, to retire the second mortgage and eventually to retire the first mortgage.

6. *Revolving Fund.*—The release of the Financing Company funds due to the retirement of the second mortgage by the installment payments to be available for re-investment.

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1. *Income.*—The gross income is estimated to be 6 per cent. of the invested capital. After deduction of expenses, such as salaries, office rent, etc., the net income of the Financing Company is estimated to be from 4 to 5 per cent. if the capital is fully invested.

PLAN NUMBER TWO.

COMMUNITY COMPANIES.

1. *Capitalization.*—The capital funds of the Financing Company to be raised by subscription by commercial and industrial interests. Fifty per cent. of the authorized capital to be subscribed immediately and to be subject to payment in specific amounts at certain definite periodic intervals.

2. *First Mortgage.*—The Financing Company to assume at the prevailing interest rate a first mortgage equal in amount to not less than 60 per cent. of the total cost of the home, including the improved lot.

3. *Second Mortgage.*—The Financing Company to assume at the prevailing interest rate a second mortgage equal in amount to not more than 30 per cent. of the total cost of the home, including the improved lot.

4. *Initial Payment.*—The Home Seeker applying for the loan to have in cash, land or its equivalent an amount not less than 10 per cent. of the total cost of the home, including the improved lot. This payment to be made to the Financing Company at the time the loan is negotiated.

5. *Liquidation.*—Installment payments to be made monthly by the home builder at a rate of not less than 1 per cent. of the amount advanced. The payments to begin when the loan is made.

6. *Revolving Fund.*—The Financing Company to sell trust notes to investors, pledging the mortgages as collateral, thus constantly securing additional funds of increasing effectiveness for re-investment.

7. *Income.*—The net income will depend largely upon the rapidity of re-investing the Financing Company's funds. It is estimated not to exceed 6 per cent. of the invested capital.

PLAN NUMBER THREE.

1. *Capitalization.*—The capital funds of the Financing Company to be raised as described in Plan No. 1, Certificates of paid up stock in one or more approved building and loan associations to be purchased as fast as the capital funds are received.

2. *First Mortgage.*—The home seeker, with the assistance of the Financing Company, to place a first mortgage with a building and loan association in which the Financing Company holds stock certificates. The amount of this mortgage to be not less than 60 per cent. of the total funds required.

3. *Second Mortgage.*—The second mortgage as such does not enter into this plan but appears in different form. In case the building and loan association is prevented from assuming the degree of risk represented by the difference between the amount of the initial payment of the home seeker and the total loan, then the Financing Company will assign to the building and loan association certificates of paid up stock of the building and loan association held by the Financing Company. The amount of this assignment to equal the difference between the loan assumed by the building and loan association and the sum required by the home seeker.

4. *Initial Payment.*—The applicant to make an initial payment to the building and loan association at the time the loan is negotiated. This payment to be not less than 10 per cent. of the total cost of the home and the improved lot.

5. *Liquidation.*—The home seeker to make monthly installment payments to the building and loan association in amount equal to not less than 1 per cent. of the funds advanced. A portion of these payments to apply against the interest charges and the balance to release the paid up certificates assigned to the building and loan association by the Financing Company.

6. *Revolving Fund.*—The Financing Company funds to be released for re-investment by applying the installment payments against the certificates of paid stock held by the Financing Company. As these certificates of paid up stock are released they become immediately available for further new loans.

7. *Income.*—The gross income of the Financing Company will amount to the rate of interest paid by the building and loan association on the paid up certificates of stock.

PLAN NUMBER FOUR.

COMMUNITY COMPANIES.

1. *Capitalization.*—The capital funds of the Financing Company to be raised by public sale of certificates of stock at a par value not to exceed $100. Subscriptions to be made by individuals, estates, commercial and industrial interests. Ten per cent. of the total amount subscribed to be paid at the time of subscription and the balance in periodic installments.

2. *First Mortgage.*—The home seeker to place a first mortgage equal to not less than 60 per cent. of the total funds required, with any one of a number of lending institutions approved and recommended by the Financing Company.

3. *Second Mortgage.*—The Financing Company to take as collateral a land contract to cover the amount required to bridge over the difference between the first mortgage plus the initial payment and the total loan. In this plan the home seeker is required to purchase a lot on his own terms.

4. *Initial Payment.*—The home seeker to hold as equity in a lot an amount equal to at least 10 per cent. of the total funds to be advanced.

5. *Liquidation.*—The home seeker to pay to the Financing Company each month an amount equal to not less than 1 per cent. of the cost of the house. These payments to retire the loan advanced by the Financing Company, at which time the land contract will be terminated and the home builder given a deed to the property. In addition the borrower is also required to meet the interest charges of the first mortgage, to pay the taxes and to carry a fire insurance.

6. *Revolving Fund.*—The Financing Company to secure funds for re-investment by negotiating loans and offering the land contracts as security.

7. *Income.*—The estimated gross income with the capital fully invested to be 5 to 6 per cent. per cent. per annum.

PLAN NUMBER FIVE.

INDUSTRIAL COMPANIES.

1. *Capitalization.*—Capital funds to be appropriated by the company or companies entering into the housing project.

2. *First Mortgage.*—In lieu of a first mortgage a demand note at the current rate of interest is given by the employe to the company for the customary first mortgage amount.

3. *Second Mortgage.*—In lieu of a second mortgage the employe gives a time note to the company. This time note to be payable after a number of years at the current rate of interest. For example, a $1,000 note payable in 12 years with interest at 5 per cent.

4. *Initial Payment.*—The employe is required to make a payment of not less than 10 per cent. of the total cost of the house, including the improved lot at the time the loan is negotiated.

5. *Liquidation.*—The employe agrees to purchase the requisite number of shares in a building and loan association or other approved lending institution upon which periodic installment payments are made so that the deposits at the current rate of interest will have matured in a sum equal to the face value of the time note at the date set for payment of the time note. The employe also agrees to carry the loan by making monthly interest payments to the company on the demand and time notes. The company agrees not to act upon the demand note as long as the employe continue to fulfill his part of the agreement; that is, to make monthly interest payments to the company and monthly payments to the lending institution.

6. *Insurance Benefit.*—If the employe should die or become incapacitated within the payment time of the note, provided than in the event of death the employe is not over sixty years of age, the company will accept the cash surrender value of the shares of the lending institution as full payment of the time note. The property will then be free from all incumbrances except the amount of the demand note, which, at the option of the employe of his heirs, may be transferred as a first mortgage to a lending institution.

PLAN NUMBER SIX.

INDUSTRIAL COMPANIES.

1. *Capitalization.*—Capital funds to be provided by the company or companies interested.

2. *First Mortgage.*—The company will assist the employe in placing a first mortgage with a lending institution to cover at least 60 per cent. of the total funds required.

3. *Second Mortgage.*—In lieu of a second mortgage a time note is given by the employe to the company for an amount equal to the difference between the first mortgage plus the initial payment and the total funds required.

4. *Initial Payment.*—The employe is required to make a payment of not less than 10 per cent. of the total cost of the home, including the improved lot at the time the loan is negotiated.

5. *Liquidation.*—The employe agrees to purchase a combination "life-accident" insurance policy and to maintain same in force until paid up, at which time the cash surrender value will be used to liquidate the time note and possibly a portion of the demand note. The employe is required to make monthly interest payments to the lending institution and to pay taxes and carry fire insurance.

6. *Insurance Benefit.*—In the event of death of the employe or injury to the extent of causing partial or total disability the compensation paid by tyhe insurance company will be available to pay off the time note and possibly a portion of the demand note. The property will then be free of all incumbrances except the first mortgage.

* * *

THE EFFECT OF TOO MUCH WATER IN CONCRETE

By DUFF A. ABRAMS

Concrete is made of a mixture of three materials of entirely different characteristics—cement, aggregate and water. These materials, or any two of them, may be mixed in all proportions; however, it is only a certain range of possible mixtures (which must include cement and water) that is useful as a structural material. A certain proportion of cement must be used in order to secure the requite strength; a certain quantity of water is necessary in order to develop the hydraulic properties of the cement and to produce a plastic mix; economy dictates the use of aggregate in the mix.

Experience has indicated about what proportions of cement and aggregate must be used to give concrete the necessary resistance for a given purpose, but little attention has been given to the inter-relation of the effects of varying quantities of water on the resistance of the concrete.

A thorough investigation of this subject is in progress at the Structural Materials Research Laboratory. These tests have shown the following relations to obtain:

1. With a certain aggregate of the same grading and sufficient water to produce a concrete of a given plasticity, the strength of the concrete, within the usual range of mixes, is proportional to the quantity of cement in a unit volume of concrete.

2. With a given aggregate and the same quantity of cement, the strength of the concrete is a maximum with the smallest quantity of water which can be used to produce a plastic mix; any increase in the quantity of water is accompanied by a very rapid falling off in the strength of the concrete.

3. With a given aggregate mixture, the same quantity of cement, and sufficient water to produce a concrete of definite plasticity, (a) the strength of the concrete increases with the "coarseness" of the aggregate up to a certain limit; (b) this limit of "coarseness" is higher for a larger quantity of cement and lower for a smaller quantity of cement; (c) the limit of "coarseness" of the aggregate which it is feasible to use varies slightly with the character of the material, being somewhat lower for a mixture of sand and crushed stone than for sand and well-rounded pebbles, and still lower for mixtures in which crushed stone or similar material is used as fine aggregate.

4. For given proportions of cement and aggregate, the quantity of water required for a definite plasticity depends largely on the grading of the aggregate and to only a minor degree on the character of the material, shape of particles, etc.

5. For a given aggregate, the quantity of water required to give concrete of the same relative plasticity is directly proportional to the quantity of cement.

If we assume that concrete materials of suitable character are at hand, and that mixing and other details are properly cared for, the engineer generally has the following alternative for improving the quantity of the concrete:

a. More cement.

b. Coarser aggregate (within certain limits).

c. Less water (limited by the necessity of producing a plastic mix).

Economy dictates the use of the smallest quantity of cement which will produce concrete of the desired resistance. The tendency has been during recent years to use entirely too much water; in many instances the water used is 50 to 100 per cent. in excess of the quantity which gives the highest strength, resulting in concrete of not more than 25 to 50 per cent. the strength that should have been obtained with the same cement and aggregate and a proper quantity of water. While some sacrifice in strength is generally necessary in order to secure concrete which may be handled and placed at low cost, it is absurd to sacrifice 50 to 75 per cent. of the strength which is practically available in this way. While the injurious effect of excess water in concrete has been given little attention, a great deal of emphasis has been placed on the benefits to be derived from the use of coarse, well-graded aggregate.

The experimental work referred to above has already thrown much new light on this subject. We are forced to the conclusion that the chief advantages of well-graded and coarse aggregate as compared with poorly-graded aggregate come from the fact that *the concrete can be mixed to a workable plasticity with less water,* and not to any inherent difference in the behavior of aggregate of different sizes. In other words, while coarse, well-graded aggregate is highly desirable, *little or nothing is gained by using aggregates of the highest grade unless we take advantage of the fact that it can be mixed with correspondingly less water.* This makes it apparent that many of the shortcomings of concrete made of fine or poorly-graded aggregate should be charged to the additional water required to mix the concrete.

It is as important that an upper limit be placed on the quantity of water as it is that a lower limit be placed on the quantity of cement in the batch. It would be just as consistent to specify the quantity of aggregate and water and leave the proportioning of the cement to the judgment of the mixer foreman, as to specify the quantity of cement and aggregate and leave the proportioning of the water to the mixer gang. Exactly the same effect is produced by the use of an excess of

Portland Cement, Sand or Gravel by carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

water as by deficiency in cement; and it is more important now that special attention be given to the water in concrete, since the present methods give reasonable assurance that the proper quantity of cement is used.

All the benefits which may arise from using good cement, coarse, well-graded aggregates, thoroughly mixing the concrete, etc., are completely nullified if an excess of water is used in the mix.

"In mixing concrete use the least quantity of water that will produce a workable mix, then give the concrete as much water as possible after it has begun to harden," is the only safe rule to follow. The amount of water which should be used with given materials cannot always be determined in advance; it will also vary with the nature and size of the work. However, every effort should be made to keep the water content of the concrete at a minimum. It is not feasible to use the quantity of water corresponding to the highest possible strength of concrete (a similar statement may be made with reference to the "coarseness" of the aggregate), yet this difference should be reduced to a minimum by using the smallest practicable amount of water.

The abuse of the water element in concrete has come about solely from the fact that it is cheap, and frequently facilitates handling and placing. Much of the concrete which is being made at the present time could be greatly improved, at no additional cost, if the owner were compelled to pay, say, one-half to one cent per gallon for all water going into the mixer. In many respects it is unfortunate that water is not an essential element in the cost of concrete.

Probably the greatest improvement which can be made in our present methods of manufacturing concrete will come from a better understanding of the very injurious effect of excess water and a saner practice in proportioning this important element of the mix.—*Concrete Highway Magazine.*

* * *

ESTIMATING BRICK WORK

By I. P. Hicks.

Brick, as made by different manufacturers, vary in size and, of course, there is sure to be more or less variations in the actual quantities required for certain jobs; the variations depending upon the size of the brick and the size of the mortar joints made in laying the brick, says I. P. Hicks in the *National Builder.* For the purpose of estimating we will assume as near as we can the average size of brick as we find them on the market. For the common brick we will assume it to measure 8¼x4x2½ inches and that the wall is to be laid up with 3-8-inch mortar joint.

For this kind of a wall figure 6 brick to each suare foot of wall for every 4-inch thickness of wall. Thus, for a wall 4 inches thick, figure 6 brick per square foot; for an 8-inch to 9-inch wall, figure 12 brick per square foot; for a 12 to 13-inch wall, figure 18 brick per square foot; for a 16 to 17-inch wall figure 24 brick per square foot and so on, adding 6 brick for each 4-inch thickness of wall.

To be very accurate in the number of brick required, deduct the brick required for all openings. In small foundation work, where there are only a few small cellar window openings, it is hardly worth while to deduct the openings, but for the main windows and doors in a brick building, it becomes necessary to deduct the brick for openings, otherwise the result would be far too many brick.

BRICK FOOTINGS.

Brick footings, based on steps or offsets of 2 inches, may be estimated by the lineal foot, as follows: For a 9-inch wall, 2-course footing, 10½ brick; 13-inch wall, 3-course footing, 22½ brick; 18-inch wall, 4-course footing, 39 brick; 22-inch wall, 5-course footing, 60 brick; 26-inch wall, 6-course footing, 85½ brick.

PRESS BRICK.

For a standard size of press brick we will assume the following dimensions: 8¼x4x2¼ inches, and the mortar joint to be ¼ inch. This will require 7 brick per square foot for every 4-inch thickness of wall.

MORTAR FOR BRICKWORK—LUMP LIME MORTAR.

The quantity of material required to lay 1,000 brick with a 3-8-inch joint, using 1 to 2 lime mortar, composed of 1 part lime putty to 2 parts sand, will be 1¾ barrels of lump lime and ⅝-cubic yard of sand.

HYDRATED LIME MORTAR.

For mortar composed of 1 part hydrated lime and 2 parts sand, figure 6½ 50-pound sacks of hydrated lime and ⅝-cubic yard sand per 1,000 brick.

CEMENT MORTAR.

For 1 to 3 cement mortar composed of 1 part Portland cement and 3 parts sand, figure 5 sacks of cement and ⅝-cubic yard of sand per 1,000 brick, with a 3-8-inch mortar joint. Approximately 2½ bags of cement and 1-3 of a cubic yard of sand will be required if laid with about a ¼-inch joint.

CEMENT AND LIME MORTAR.

Figure 1 sack of Portland cement, ¾-barrel of lump lime and ⅝-cubic yard of sand per 1,000 brick laid in the wall with a 3-8-inch mortar joint.

Estimating Brick for Chimneys.

SIZES GIVEN ARE INSIDE OF FLUE MEASURE.

8x8 flue, 24 brick per lineal foot.
8x12 flue, 28 brick per lineal foot.
12x12 flue, 32 brick per lineal foot.
12x16 flue, 36 brick per lineal foot.
16x16 flue, 40 brick per lineal foot.
8x8 double flue, 40 brick per lineal foot.
8x8 and 8x12, two flues, 44 brick per lineal foot.
8x12 double flue, 48 brick per lineal foot.
8x12 and 12x12, two flues, 52 to 56 brick per lineal foot.

Chimney breasts for fireplaces and mantels require 90 to 110 bricks per lineal foot the height of the chimney breast. Where the chimney is reduced in size above the breast, figure according to the size and number of flues from there to the top as given above. These figures should enable one to arrive at a very close figure as regards the number of brick required. In the above figures no allowance has been made for any waste in brick and it would be proper to allow a small percentage for broken and wasted brick. If the brick are of good quality, 3 to 5 per cent. ought to cover all the waste in handling and laying.

LABOR COST OF LAYING BRICK.

The labor cost of laying brick varies according to the wall, the bond and the kind of mortar joint made. Common brick laid with common bond and plain cut joints; a bricklayer, with one tender, should lay 1,100 brick per 8-hour day, using cement mortar, and 1,350 using lime mortar.

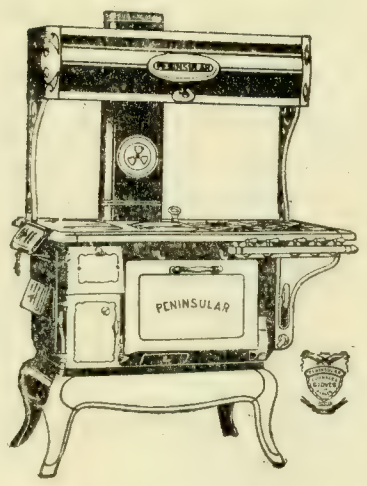
For walls laid in common bond with struck joint one side and plain cut joint on the other side, figure 1,000 brick per 8-hour day, using cement mortar, and 1,200, using lime mortar.

For face walls laid up with selected common brick in common bond with V-shaped mortar joints, or with joints raked out, figure, per 8-hour day, 900 brick, using cement mortar, and 950, using lime mortar.

Face walls laid up with press brick or face brcik where there are panels and pilasters, figure 350 to 400 brick per 8-hour day.

For plain walls laid up with press or face brick, figure 700 to 800 brick per 8-hour day.

Figure laborer's time same as bricklayer's time where there is but one bricklayer working; if two bricklayers are working, figure ½ hour laborer's time to 1 hour of bricklayer's time.—*The Clay Worker.*



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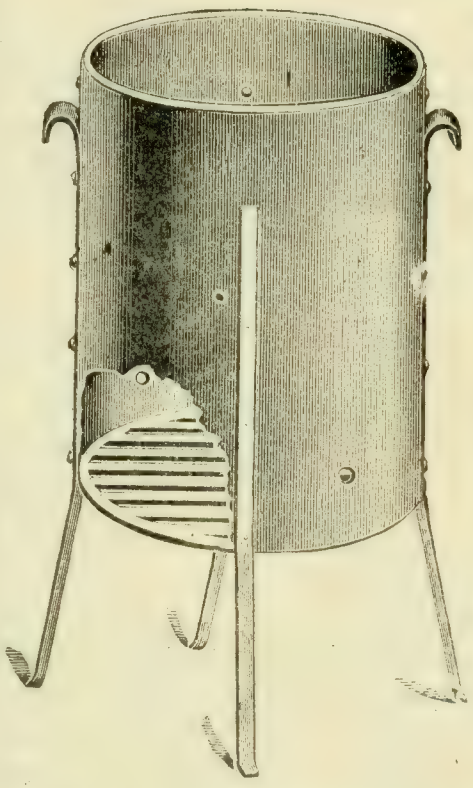
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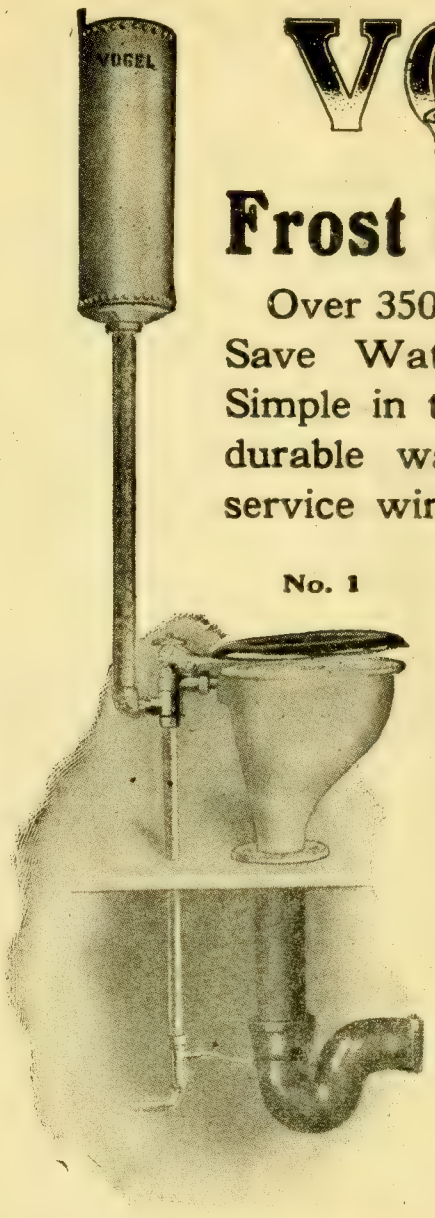
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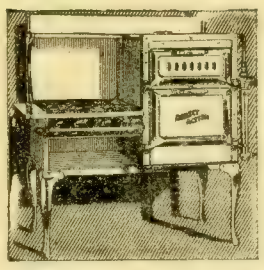
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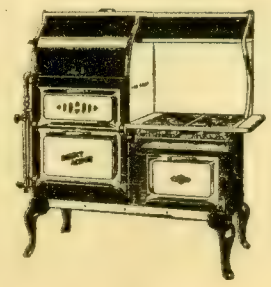
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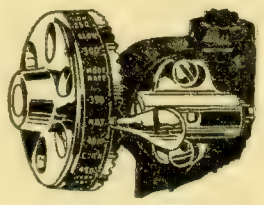






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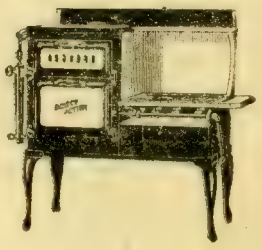


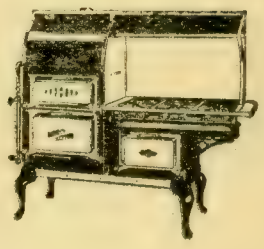
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXV, No 8
February 25, 1920

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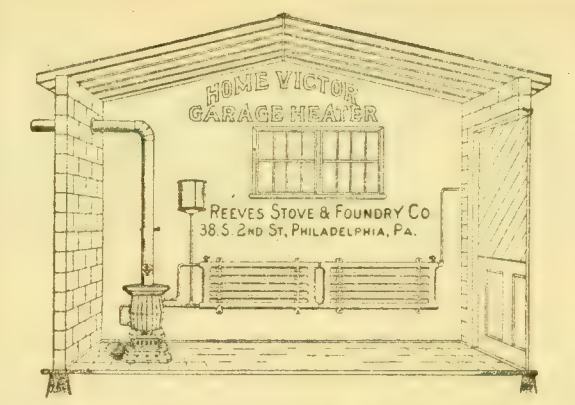
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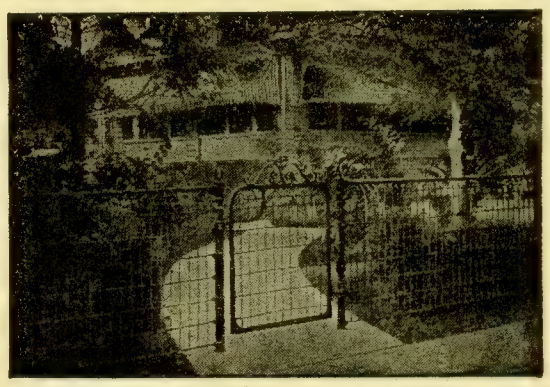
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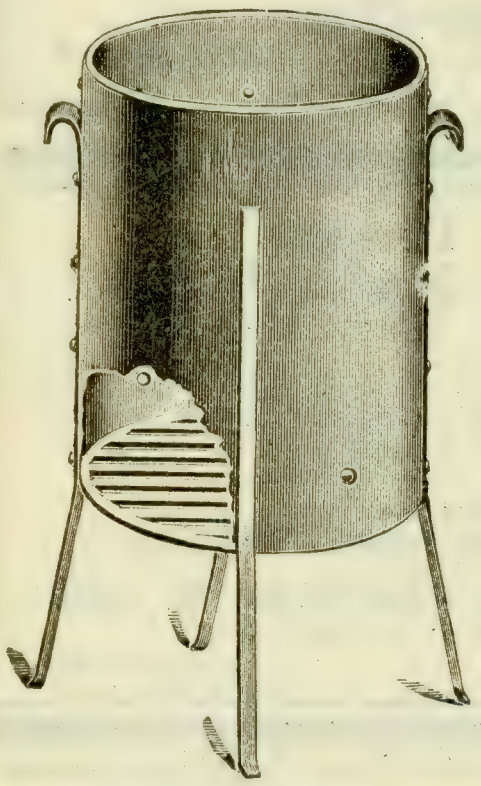
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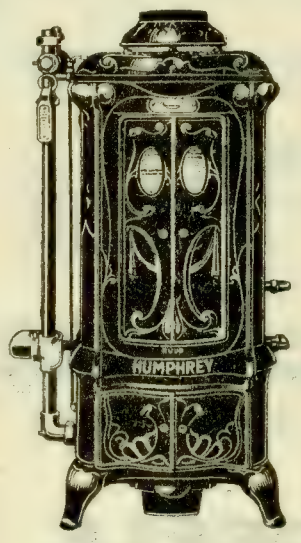
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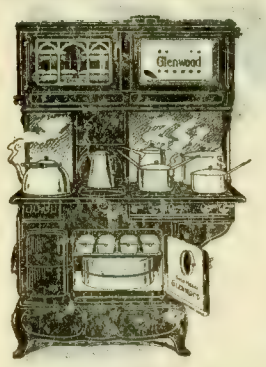
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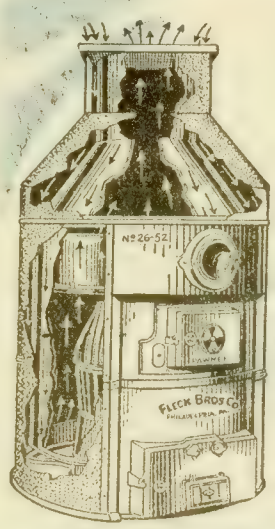


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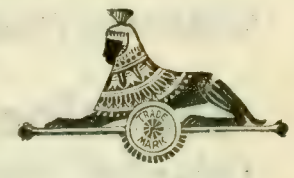
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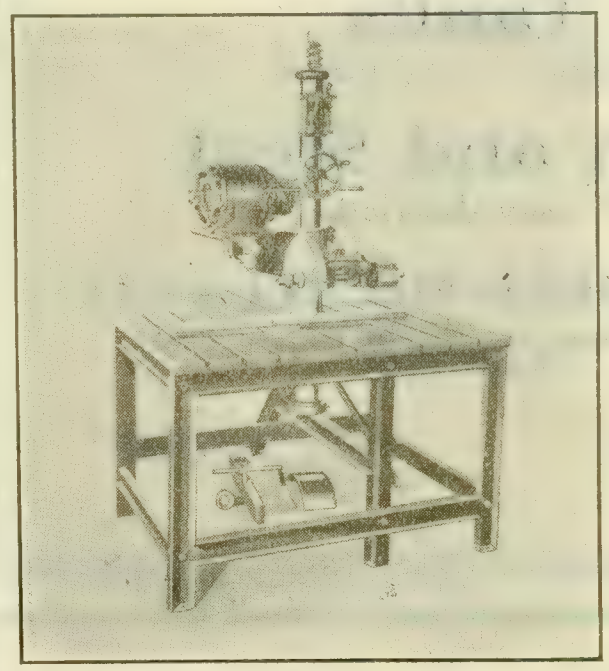
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 8

PHILADELPHIA
February 25, 1920

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

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As The Editor Sees It

AT the present writing the only thing we can think of which has not gone up in price is "Talk." Therefore, we are still discussing ways and means of reducing the high price of everything, but so far with very little result. It seems perfectly plain and simple to understand that every time a wage earner demands an increase in wages it sends the cost of living—*his* living not excepted—up a peg higher; we say this seems plain and easy to understand—we should add for every one except the wage earner in question.

However, one thing is certain. Until Labor is educated to a proper understanding of the important part which strikes, under-production, ever-increasing wages, etc., play in causing the H. C. of L., nothing very definite can be accomplished.

No doubt progress is being made. Large plants through the country are educating their employes and are overcoming the insidious Bolshevist tendencies now inculcated in so many workingmen. But the struggle is only begun, and the race will be to the patient and long-suffering, not to the swift.

In the meantime, we still hear news of strikes and demands for higher wages. An account of a peculiar building trades strike is given in *Building Industry.*

A strike of carpenters, says that organ, in which no contractor is involved is a rarity, but this rather odd condition has arisen in Cleveland, where approximately twenty-five carpenters in the employ of the Board of Education have left their work because of a dispute regarding wages. The fact that all of the carpenters who are on strike are civil service employes, appointed to their positions from the regularly certified lists submitted by the Civil Serevice Commission of the city, adds another peculiar phase to the controversy. The carpenters were employed by the Board of Education principally as maintenance men for the care and repair of the large number of buildings under the control of the educational department of the city, and in some instances have been employed to do jobs of considerable extent which would probably have been let to contractors except for the policy of employing the men direct. Whether or not this policy is a proper and economical one is open to grave doubt—in any event the Board of Education is now finding out that the direct labor policy has some disadvantages.

For a number of years it has been the custom of the Board to fix the wages to be paid carpenters at the same rate as established by agreement between the Carpenters' Union and the Carpenter Contractors' Association of Cleveland. The Cleveland established rate is ninety cents per hour; although, because of a great amount of work and a consequent shortage of carpenters, the prevailing wages for carpenters throughout the city is somewhat higher. The Board takes the position that it has agreed with its employes on a scale of ninety cents per hour until May 1st of this year, when the agreement between the contractors' organization and the union expires, and that until the established scale is changed by agreement between the union and the contractors' organization the carpenters in the employ of the Board should receive not more than the fixed rate. The unions maintain that the prevailing rate of wages in the city is higher than ninety cents and that because most contractors are paying a higher rate and one small contractors' organization has agreed to a higher rate, its members employed by the Board should be given an increase in wages.

There has been no change in the scale agreed upon by the Carpenter Contractors' Association and the Carpenters' Union and, if the carpenters employed by the Board of Education were hired with the understanding that they would work at the rate fixed in the agreement, there is no question but that the compact made between them and the Board has been violated by the strike and they should be returned to work immediately.

Different plans for arbitrating the controversy have been proposed by the Board of Education and the Carpenters' Union, and in the meantime the men who were ordered to quit jobs where they can earn more in a year at ninety cents per hour than the average carpenter can earn at a considerably higher rate are the sufferers.

DRAWING MATERIALS

CHARLES H. ROBBINS, JR.
1209 Arch Street, Philadelphia
BELL PHONE, SPRUCE 1256 KEYSTONE PHONE, RACE 614

BLUE PRINTS

RESOLUTIONS opposing the collective bargaining bill introduced in Congress by Representative M. Clyde Kelly were adopted at a meeting of the Master Builders' Exchange of Phila

The bill, introduced by Mr. Kelly, of Pennsylvania, reads:

To provide for collective bargaining between employers and employees in all industries engaged in interstate commerce.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the refusal of any individual, partnership, firm, corporation, or association engaged in interstate commerce that engages and uses the services of any employe or employees for wage, salary, or other valuable consideration, to bargain collectively with such employees, through their duly chosen representatives, is hereby declared unlawful.

Sec. 2. That the denial or abridging of, or interference with, by any such employer engaged in interstate commerce, the right of employees to organize in trade unions; the denial or abridging of or interference with, by any employee, the right of such employers to organize in associations or groups; the discharge by any such employer of employees for membership in trades unions or for legitimate trade union activities, and the use by any employees of coercive measures to induce persons to join their organizations, are hereby declared unlawful.

Sec. 3. That any person who shall violate the provisions of the Act shall be guilty of an offense, and upon convictions thereof by a court of competent jurisdiction shall be punished by a fine of not less than $1,000, nor more than $5,000, or by imprisonment for not more than one year or by both such fine and imprisonment.

The members of the Exchange unanimously condemned the bill as un-American and urged all commercial and industrial bodies in the city, as well as other Builders' Exchanges in the United States, to co-operate in a fight to defeat it.

IT is interesting to note in this connection that the National Association of Building Trades Employers virtually commits itself in its "platform" to collective bargaining between employers and workers.

The aims of this association, in addition to the objects specifically declared in its constitution, are of the highest order.

We stand, says the association, for the complete elimination of jurisdictional disputes, and in this behalf we insist upon the proper revision of present jurisdictional decisions and awards to eliminate overlapping and conflicting claims, and we further insist upon the right of the employers of building mechanics to participate in the revision of jurisdictional decisions and awards, and that all future jurisdictional questions and claims shall be decided by a properly constituted board made up of representatives of this organization and its employees, and we demand that pending the disposition of a jurisdictional claim by the board to be so created, there shall be no cessation or stoppage of work, and that the contractor shall use whatever mechanics he may desire for the erection of work in dispute until a final decision is rendered, and that when a final decision shall have been made, all parties must conform to and abide thereby.

The promulgation of a uniform National Agreement with respect to the terms and conditions of employment; wages and hours to be determined by a zone system.

To require by an agreement between the members of this organization and their employees the settlement of all disputes of every kind and character by arbitration without any cessation or stoppage of work.

To organize associations of contractors in every industrial community of importance throughout the country to the end that, in the shortest possible time, this association, through the affiliation of national, State and local organizations, shall become representative of and have jurisdiction over the greatest possible number of contractors.

We further declare that this association is not organized as an instrument of oppression for either employer or employee, but that its purpose shall be to promote the best interests of employers, employees and the public.

We further declare that the association stands for fair dealing and for a full measure of respect for the equitable rights and privileges of all parties concerned, and for the promotion of the policies of this association, and the consummation at the earliest possible moment of its objects, we ask for the earnest, enthusiastic and loyal co-operation and support of good citizens of every trade in general and from contractors and building mechanics in particular.

COSTS AND BETTER CONTRACTING

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By H. G. CHRISTMAN, President, H. G. Christman Company.

An accurate system of cost accounting has been an important factor in the growth and prosperity of the H. G. Christman Company, and the value of this feature of the contractor's organization deserves great emphasis. The builder must know what the various elements of one job have actually cost before he can prepare a logical bid upon another. Guesswork has no place in modern industry.

In the system that our organization has developed, materials and labor are estimated under fixed general divisions and their sub-divisions. Reference is made, of course, to our cost records on previous jobs, and an excellent idea is obtained of both the amounts to be charged against the various parts of the work and of the time required for its completion.

Then during the progress of the work costs are kept according to the same schedule of items as was used in making up the estimate. A schedule has been prepared which first lists the general headings, with their divisions, and then states briefly the nature of the items that are to be charged under each. Copies of this cost distribution schedule are placed in the hands of the superintendent on each job, with the necessary forms for keep an accurate and complete set of costs. Unnecessary refinement is eliminated, but some detail is necessary in order that the desired figures may be secured.

At the completion of the job, comparison is made between the estimated and the actual costs, and the superintendent is paid a bonus in proportion to the savings he has made. He in turn shares the bonus with the various foremen working under him, on a predetermined basis. At the beginning of the job each foreman is given an estimate of the labor cost, only, on the work that will fall to his men, so that he can always tell whether the work is being done within the estimate, and yet he does not have details as to the total cost of each part of the job.

The bonus is made a liberal one so that a strong inducement is offered to those in direct charge of operations to put forth every effort in securing a good output from the workmen and in developing more efficient methods. The success of such a bonus system hinges upon adherence to fair standards when the estimates are prepared, so that under careful supervision savings worth while can be made. —*Bulletin of Associated General Contractors.*

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Receiving Building, Eighth and Cumberland streets, Philadelphia. Architect, William F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia. Owners, Breyer Ice Cream Co., Eighth and Cumberland streets. Concrete and steel, fireproof, 1 story, 50x90 feet, mastic roof, vitrified brick floors, hollow tile, fire doors. Architects taking subbids.

Building (alts. and add.), Broad and Brown streets, Philadelphia. Architect, David B. Bassett, 1530 Chestnut street, Philadelphia. Owner, National Text Co., Inc., Commonwealth Building, Philadelphia. New partitions, plastering, painting, metal sash, iron work. Architect taking bids. T. C. Trafford, 1613 Sansom street; F. G. Stewart, 1619 Sansom street, and Lam Building Co., 1001 Wood street, are figuring.

Residences and Garages (17), North side of Osage avenue, Sixty-second to Sixty-third, Philadelphia, $128,500. Architect, private plans. Owners, Rubin & Cohen, 411 South Sixty-second street, Philadelphia. Brick, 2 stories, 18x40 feet, and 3 stories, 19x40 feet, hot water heating, electric lighting, tile work. Owners will build.

Business Building, Southwest Corner Fourth and South streets, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Bernard Rosoff, 428 South streets, Philadelphia. Brick, stone, terra cotta trimming, 4 stories, 21½x60 feet, slag roof, rubber floors, hot water heat, electric light, tile and marble work, metal lath, rolled steel sash and skylights, (1) passenger elevator, flush bulks, metal ceilings, wire and iron work. Plans in progress.

Business Building, Southwest Corner Fifth and South streets, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, William Rosoff, 513 Bainbridge street, Philadelphia. Brick, stone, terra cotta trimmings, 4 stories, 29x75 feet, slag roof, rubber floors, stone foundations, hot water heat, electric light, tile and marble work, rolled steel sash and skylights, metal lath, (1) passenger elevator, flush bulks, iron and wire work. Plans in progress.

Residence (alts.), 71 Bethlehem Pike, Chestnut Hill, Philadelphia. Architect, H. L. Duhring, Bailey Building, Philadelphia. Owner, Miss Lucy Duhring, on premises. Stone, interior alterations, fireplaces, steam heating, slate roof. Architect taking bids due as soon as possible. Alexander Caie, 48 East Chestnut avenue, Chestnut Hill, Philadelphia, only bidder.

Market House (alt. and add.), 1430 South street, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Robert Venturi & Brother, 1430 South street, Philadelphia. Brick and frame, 1 story, 34x120 feet, stone foundations, asphalt mastic roof and floors, pipeless heater, electric light (plumbing, electric work and refrigeration reserved). Architect taking bids due March 3rd. Tourison & Tourison, 1011 Chestnut street; Robert E. Lamb Co., 843 North Nineteenth street; William H. Eadleman & Son, 453 Green Lane, Germantown, and Frank Lucci, 1603 Ellsworth street, are figuring.

Office Building and Stores, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, name withheld. Brick, steel, concrete and terra cotta, 7 stories, 100x65 feet, concrete foundations, slag roof, composition and pine floors, steam heat, electric light, tile, marble and terrazzo work, hollow tile, metal lath, (2) elevators, iron work. Plans in progress.

Residences (12), Fern Rock, Philadelphia. Architect. J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x48 feet, stone foundations, slag roof, oak floors, hot water heat, electric light, tile work. Plans in progress.

Store, 2836 Kensington avenue, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, M. Mandell, 2834 Kensington avenue, Philadelphia. Brick, 2 stories, 18x85 feet, stone foundations, slag roof, pine floors, hot water heat, electric light. Architect ready for bids.

Building (alts. and add.), 66 North Thirteenth street, Philadelphia. Architect, private plans. Owner, Charles Milgron, 66 North Thirteenth street, Philadelphia. New bulks, carpentry, mill work, plastering, hardware. Owner taking bids. Pierce-Henon Co., Bulletin Building, are figuring.

Bridge, Forty-ninth street, over P., B. and W. R. R., Fortieth Ward, Philadelphia. Engineer, private plans. Owner, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Director John C. Winston, 416 City Hall, Philadelphia. Brick, with grading, paving and appurtenant work. Low bidders: E. H. Vare, 1120 Race street, Item No. 1, $87,000; Monaghan & Losse, Inc., 3016 Chestnut street, Item No. 1, $117,836; Fish, Rutherford, Inc., 622 Spruce street, Item No. 1, $127,500; F. J. Boas, 201 North Broad street, Item No. 1, $135,000.

Store and Apartments (alt. and add), Southeast Corner Sixteenth and Venango streets. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Herbert A. Buxbaum, 3516 North Seventeenth street, Philadelphia. Brick, 1 story add., 15x18 feet, new slag and tin roof, pine floors, steam heat, electric light, tile work, plumbing. Architects have received revised bids.

Residences and Garages (14), 400-25 East Roosevelt Boulevard, $116,200. Architet, private plans. Owner, John W. Shisler, 2514 South Broad street, Philadelphia. Brick, 2 and 3 stories, 16x36 feet, 16x13 feet, garages, 1 story, 16x20 feet, slate and slag roof, hot water heat, electric light, oak floors, tile work. Owner will build.

Residence (alts.), to Offices, 1827 Arch street, Philadelphia. Architect, private plans. Owners, Cosmopolitan Industrial Ins. Co., Twentieth and Spring Garden streets, Philadelphia. Brownstone and brick, 4 stories, general interior alterations, changing to offices. Plans in progress.

Garage and Service Building, Broad and Benfield avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Crosstown Realty Co., on premises. Brick, 1 story ,115x36 feet, wing 111x92 feet, stone foundations, slag roof, cement floors, marble work, hollow metal sash, iron work (heating, plumbing, electric work and elevator reserved). Architects have received revised bids.

Apartment Houses (5), Pulaski avenue, Seventeenth and Butler streets. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, Jacob Marcus, 17 North Sixth street, Philadelphia. Brick, steel, terra cotta, 3 stories, 18x35 feet each, stone foundations, slag roof, oak and mineral floors, tile and marble work, metal lath, kalamein doors, iron stairs (plumbing, heating and electric work reserved). Architects taking bids. J. R. Wiggins Co., Otis Building, figuring.

Residences (4), Wynnefield, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Morris Ellis, 627 Market street, Philadelphia. (1) Hollow tile and stucco, (3) stone, 2½ stories, 35x50 feet, 45x30 feet, 24x40 feet and 30x51 feet, stone foundations, slate roof, oak floors, hot water heat, electric light, tile work (heating and plumbing reserved). Architect taking bids due March 4th. Bowden Const. Co., 1713 Sansom street; J. E. Kearney, 34 South Seventeenth street, and A. L. Fretz & Son, Heed Building, are figuring.

Store (alts. and add.), 39 North Thirteenth street, Philadelphia. Architect, E. L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, M. Simon & Co., on premises. Alterations to heating and lighting fixtures, parquetry floors, cabinet work, hollow metal skylights, flush bulks, window guards, new balcony, ornamental plastering, floor and wall cases, steel vaults. Architect has received bids.

Store Building (alts. and add.), Eighth and Luzerne streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Holcomb & Furman, Eighth and Luzerne streets, Philadelphia. Brick, 2 stories, 9x15 feet add., tin roof, pine floors, electric lighting, general alterations. Architects have received bids.

Residence (alts. and add.) and Garage, Oak Lane, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Edwin M. Dannenbaum, Mountain



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avenue, Oak Lane, Philadelphia. Stone, general alterations. Garage for three cars. Plans in progress.

School Building (add.), Twenty-eighth and Allegheny avenue, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Corpus Christi Parish, Rev. Henry A. Naylor, on premises. Stone and steel, second story add., 125x68 feet, slag roof, yellow pine floors, terrazzo work, roof ventilators, iron work (heating, electric work and plumbing reserved). Architect taking bids due February 28th. William J. McShane, 417 South Thirteenth street; William R. Dougherty, 1610 Sansom street; M. Melody & Son, 1322 Race street; Jacob Myers & Sons Co., Witherspoon Building; Roger Atkinson, Builders' Exchange; H. E. Baton, 1713 Sansom street; Stang & Mitchell, Real Estate Trust Building, and T. J. & J. R. Whelan, 1011 Chestnut street, are figuring.

Store Building, 1016 Race street, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Robert Patrick, Real Estate Trust Building, Philadelphia. Brick, 1 story, 42x170 feet, stone foundations, slag roof, maple floors, steam heat, electric light, metal lath, rolled steel skylights. Architect has received bids.

Residence and Store (alts.), 269 South Twentieth street, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, Harry Gabell, 269 South Twentieth street, Philadelphia. Brick, painting and plastering (heating, plumbing, electric work reserved). Architect has received bids.

Residences and Garages (3), Belmont avenue, North of Conshohocken avenue, $90,000. Architect, private plans. Owner, William I. Greenfield, 1411 Louden street, Philadelphia. Stone, 3 stories, 27x58 feet 9 inches, garages, 1 story, 21x25 feet, slag roof, electric lighting, cement floors. Owner will build.

Building (alts. and add.), Chestnut street, near Thirty-fourth street. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Universal Motor Agency, 3438 Ludlow street, Philadelphia. Brick, concrete, 2 stories, 75x215 feet, 4-ply asbestos asphalt roof, cement floors, tile and maple floors, marble work, metal lath, fire doors, iron work, stone foundations (heating, plumbing and electric work reserved). Revised plans in progress.

Residence, Queen Lane Manor, Philadelphia. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, O. C. Schoenwork, 5220 Schuyler street, Philadelphia. Hollow tile, 2 stories, 30x40 feet, slate roof, pine floors, vapor heat, electric light, tile work. Architect ready for bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Hotel (add.), Northeast Corner Seventeenth and Cuthbert streets, $9,000. Architect, private plans. Owner, C. Hass, on premises. General alterations and additions. Contract awarded to D. O. Boorse Co., 1625 Thompson street.

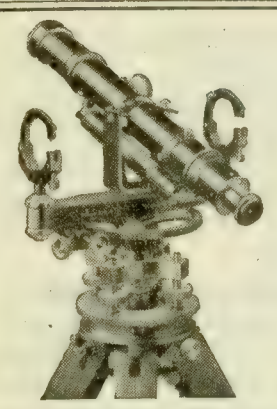
Residence and Garage, 1513 East Moyamensing avenue, $8,300. Architect, private plans. Owner, B. Weisling, 1431 South Fourth street, Philadelphia. Brick, 2 stories, 16x30 feet, 13x29 feet, slag roof, hot water heat, garage, 1 story, 19x65 feet. Contract awarded to J. Ostroff, 310 Porter street, Philadelphia.

Office and Garage (add.), Southeast Corner Tenth and Lombard streets, $8,000. Architect, private plans. Owner, Charles E. Johnson Co., 509 South Tenth street, Philadelphia. Brick, second story add., 17 feet 4 inches x33 feet 2 inches, 36 feet 2 inches x44 feet, slag roof, steam heat, electric light, cement and maple floors, metal lath, waterproofing and dampproofing, steel work. Contract awarded to J. Frank Miller, 1012 Walnut street, Philadelphia.

Store Building (alts.), 4446-48 Frankford avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Henry Stein, 4450 Frankford avenue, Philadelphia. Roof repairs, brick work, iron work, carpentry, mill work, plastering, metal lath, plumbing, elevator. Contract awarded to Abraham Kirpinchnicoff, 1110 North Forty-first street, Philadelphia.

Building (alts. and add.), 106 North Second street, Philadelphia, $9,100. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, David A. Shapiro, 724 South Fifty-ninth street, Philadelphia. Brick and

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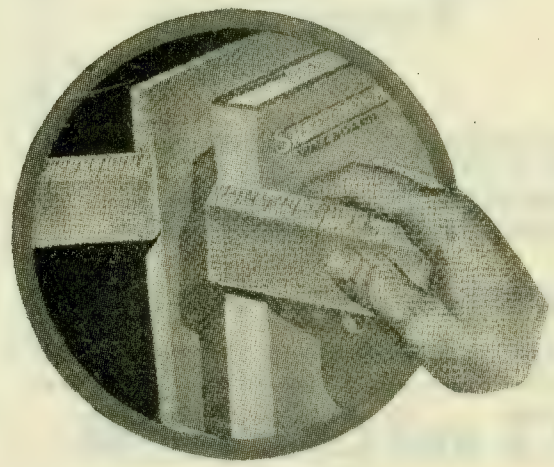
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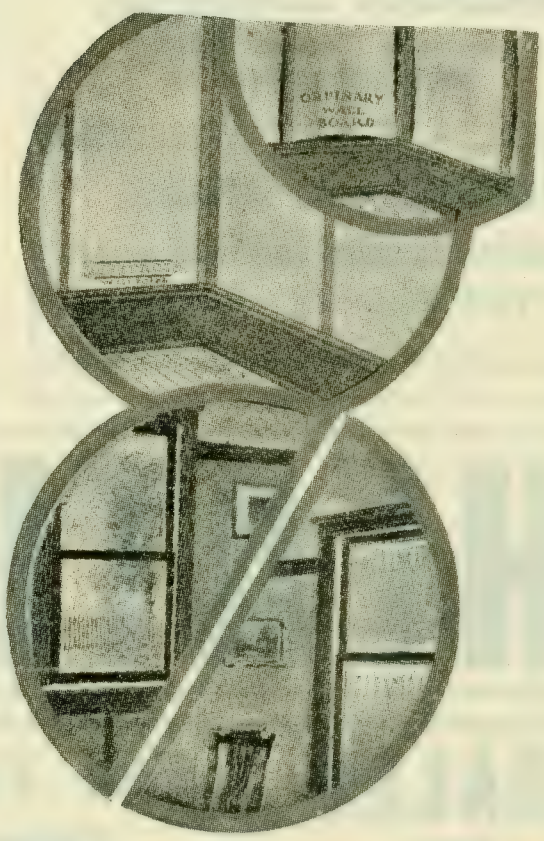
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steel, second story add., 19x46 feet, slag roof, pine floors, metal lath, roof ventilators, damp-proofing, iron work, hollow metal skylights, electric light, stone foundations (heating reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Warehouse and Office, North side Glenwood avenue, West of Twenty-second street, $36,000. Architect, private plans. Owner, John R. Livezey, 1933 Market street, Philadelphia. Brick, 2 stories, 75x27 feet and 74x165 feet, slag roof, electric light. Contract awarded to George Clayton, 1838 North Twentieth street, Philadelphia.

Apartment House, southeast corner of Sixteenth and Locust streets, $1,000,000. Architect, Frederick Webber, Morris Building, Philadelphia. Owners, Sixteenth and Locust Streets Realty Co., care of Frederick Webber, 403 Morris Building, Philadelphia. Brick, steel, terra cotta and concrete, 15 stories, 120 x42 feet, 2 wings 52x52 feet, concrete foundations, slag roof, cement and oak floors, steam heat, electric light, tile and marble work, hollow tile, metal lath, elevators. Contract awarded to M. J. O'Mara, 329 South Broad street, Philadelphia.

Club House (alts. and add.), 239 S. Camac street, Philadelphia, $6,000. Architect, David B. Bassett, 420 Perry Building, Philadelphia. Owners, Poor Richard Club, 239 South Camac street, Philadelphia. Brick, steel and terra cotta, 1 story addition, 18x29 feet, slag roof, stone foundations, steam heat, electric light, iron work. Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

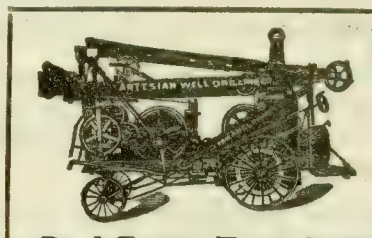
Office Building (alts.), southwest corner of Third and Chestnut streets, $22,000. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Hare & Chase, 309 Walnut street, Philadelphia. Composition floors, plumbing, iron work, roof repairs, plastering, painting, glazing, carpentry. Contract awarded to Wm. R. Dougherty, 1610 Sansom street, Philadelphia.

Service Station and Garage, 3723 Walnut street, Philadelphia, $23,000. Architect, private plans. Owners, C. C. Coolbaugh & Frank C. Mackland, Nineteenth and Cambria streets. Terra cotta and brick, 1½ stories, 40x120 feet, slag roof, cement floors, stone foundations, electric light, steam heat, rolled steel sash and skylights, fire doors, roofs ventilators. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Grand Stand, southwest corner of Thirty-fourth and Reed streets, Philadelphia, $25,000. Architect, private plans. Owners, Madisson Athletic Association, 1524 Chestnut street, Philadelphia. Frame. Contract awarded to H. A. Augustus, 1728 Christian street, Philadelphia.

Residence (alts. and add.), southeast corner of Thirty-fourth and Powelton avenue, $37,000. Architect, private plans. Owner, Max Riebenack Estate, on premises. Brick, 3 stories, 22x35 feet, 16x22½ feet and 7 feet 9 inchesx15 feet 9 inches, slag roof, steam heat, electric light. Contract awarded to Mackle-McClelland Const. Co., Drexel Building, Philadelphia.

Store and Storage, 1842 Market street, $3,000. Owner, Jeremiah J. Harrigan, 1822 North Thirteenth street, Philadelphia. Elevator shaft alteratoins. Brick. Contract awarded to F. T. Mercer Co., 1706 Delancey street, Philadelphia.



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Construction News

Residence and Garage, Melrose Park, Pa. Architect, Wm. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, F. A. Danser, care of architect. Hollow tile and stucco, 2½ stories, 24x40 feet. Garage, 1 story, 18x22 feet, slate roof, hardwood floors, cement work, stone foundations, hot water heat, electric light, tile work. Architect taking bids, due March 4th. E. Allen Reeves, Abington, Pa.; T. C. Trafford, 1613 Sansom street; C. N. Rochell, 217 Northeast Boulevard, are figuring.

Residence, Glenside, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Wm. Stohner, P. R. R. Purchasing Department, Broad Street Station, Philadelphia. Frame, 2 stories, 25x30 feet, shingle roof, pine floors, hot water heat, electric light. Owners ready for sub-bids.

Residence and Garage, Narberth, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Gallagher & McEnanem, Narberth, Pa. Hollow tile, 2½ stories, 38x45 feet. Garage, 1 story, 12x20 feet, shingle roof, oak and cement floors, hot water heat, electric light, tile work. Ownehs taking sub-bids.

Club House, Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Aberfoyle Mfg. Co., care of Chas. Gilliland, treasurer, Chester, Pa. Hollow tile and stucco, 1½ stories, 100x200 feet, shingle roof, steam heat, electric light, open air swimming pool. Plans in progress.

Memorial Building, Bethlehem, Pa., $300,000. Architects, Theo. C. Visscher & James J. Burley, 363 Lexington avenue, New York. Owners, Lehigh Alumni Association, W. K. Okison, secretary, Lehigh University, Bethlehem, Pa. Brick, stone and concrete, 2 stories and basement, 80x250 feet, slag roof, cement floors, steam heat, electric light, tile and marble work, hollow tile, metal lath. Architects ready for bids.

Residence and Garage, Merion, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, G. Herbert Taylor, northeast corner of Broad and Wallace streets, Philadelphia. Hollow tile and plaster, 2½ stories, 28x52 feet. Garage, 1½ stories, 21x20 feet, stone foundations, slate roof, North Carolina pine and oak and cement floors, hollow tile, tile and marble work, iron work (plumbing, heating and electric work reserved). Architect taking bids, due February 25th. A. L. Fretz & Son, Heed Building, and E. J. Heddon, Finance Building; W. O. Springer, 1624 West Latimer street, are figuring.

Church, Johnson City, Pa. Architect, Paul Monaghan, Bailey Building, Philadelphia. Owners, St. Anthony's R. C. Church, care of Rev. Thomas Bartol, Johnson City, Pa. Brick, 1 story and basement, 50x80 feet, stone foundations, slate roof, steam heat, electric light, marble work. Plans in progress.

Bungalow (alts. and add.), Williamsport, Pa. Architect, Chas. Barton Keen, Bailey Building, Philadelphia. Owner, S. LaRue Munsen, Williamsport, Pa. Frame, 2 stories, 21x48

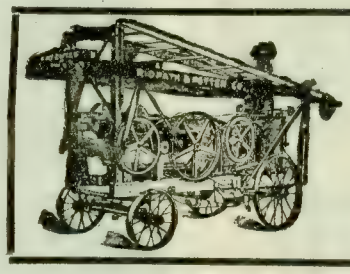


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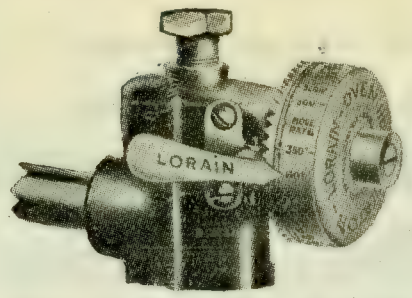
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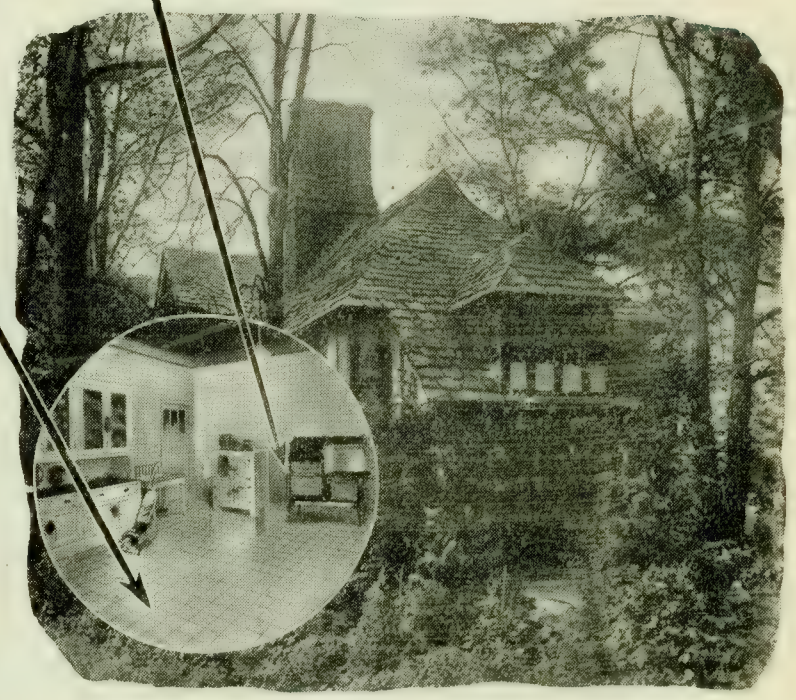
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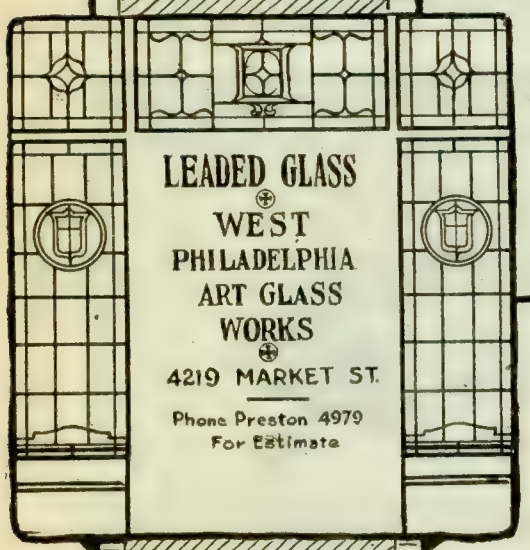


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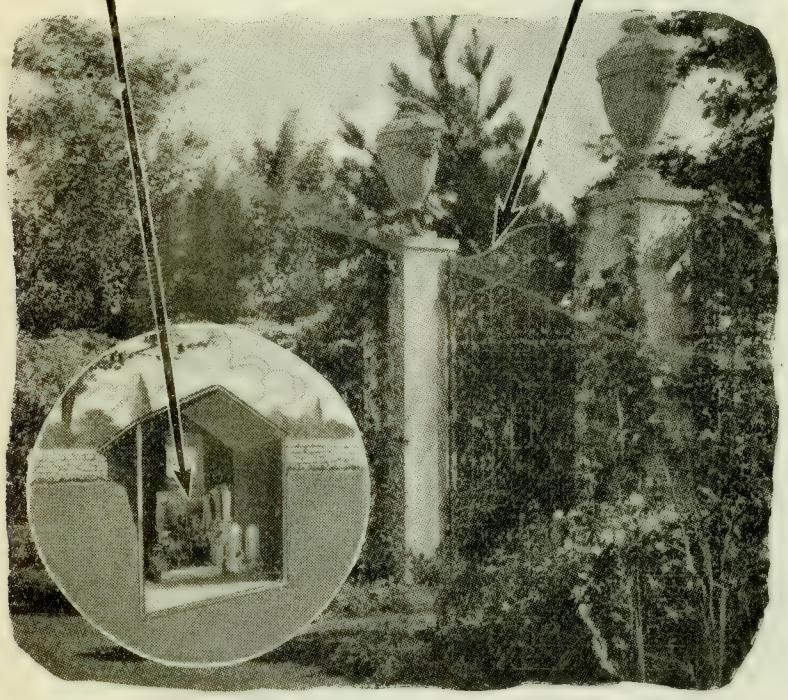
Walnut 3275 Race 1493

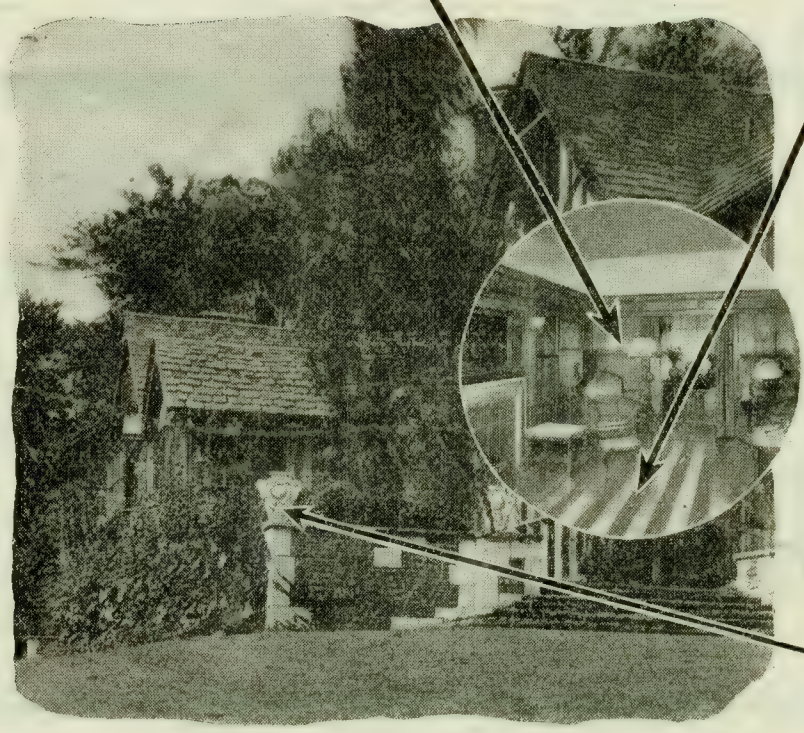
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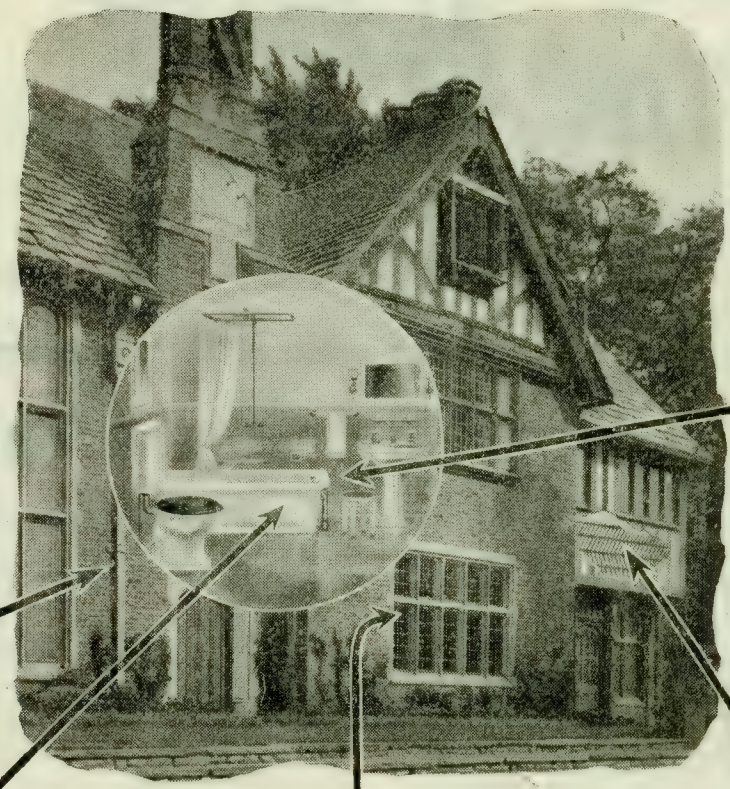
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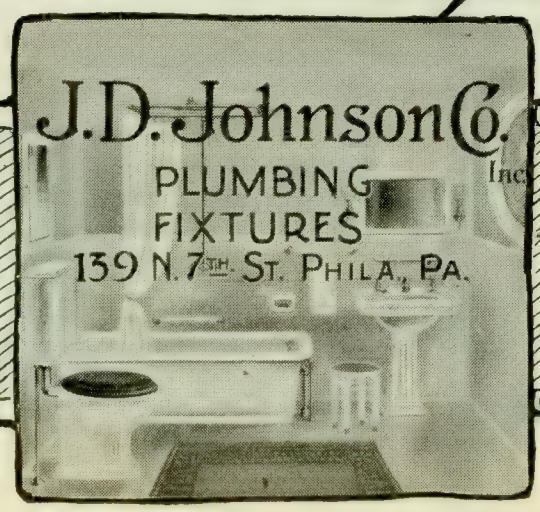
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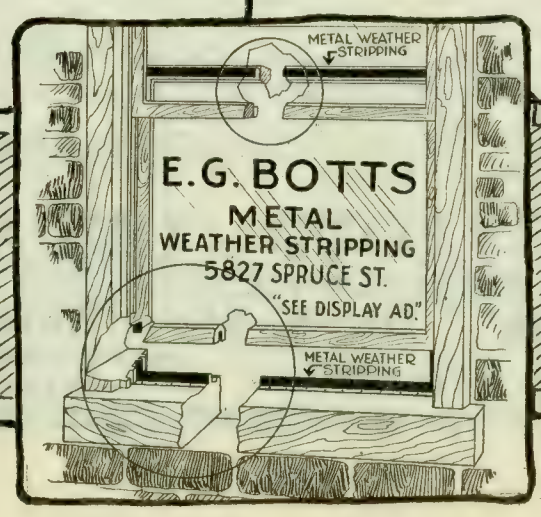
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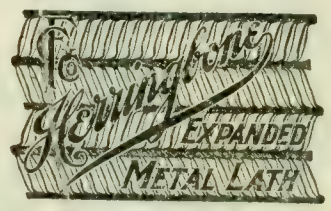
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feet, shingle roof, hardwood floors, hot air heat, electric light, tile work, plumbing, mill work, painting, etc. Plans in progress.

Residence and Garage and Stable, Villa Nova, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Mrs. W. C. Hunneman, Jr., Twenty-first and Locust streets, Philadelphia. Stone, paster, 2½ stories, 33x98 feet, stone foundations, slate roof, oak floors, hot water heat, electric light, tile and marble work. Plans in progress.

Bank Building, Allentown, Pa. Architect, E. F. Strassi, 101 Park avenue, New York. Owners, Merchants' National Bank, Allentown, Pa. Brick, stone and granite, 1 story and mezzanine, 101x44 feet, stone foundations, slag roof, cement and terrazzo floors, marble work, hollow tile, metal lath, roof ventilators, waterproofing, iron work. Architect taking bids, due February 28th. Standard Construction Co., 1713 Sansom street, Philadelphia, figuring.

Residence, Lansdowne, Pa. Architect, private plans. Owner, Wm. J. Ryder, 418 Perry Building, Philadelphia. Stone and frame, 2½ stories, 22x30 feet, stone foundations, shingle roof, oak floors, hot water heat, electric light, tile work. Plans completed. Owner ready for sub-bids.

Residence (alts. and add.), West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, F. A. Shick, Bethlehem Steel Co., Bethlehem, Pa. Hollow tile, 3 stories, 25x40 feet, slate and slag roof, oak floors, vapor heat, electric light, tile work, hollow tile. Plans completed. Owner ready for bids.

Store House (alts.), Thurlow Plant, Chester, Pa. Architect, private plans. Owners, American Steel Foundries, engineering department, Chicago, Ill. Heating, composition and concrete floors, metal lath, steel stairs, steel work, plumbing, painting, carpentry, mill work. Owners taking bids, due as soon as possible. John R. Wiggins, Otis Building, Philadelphia, is figuring.

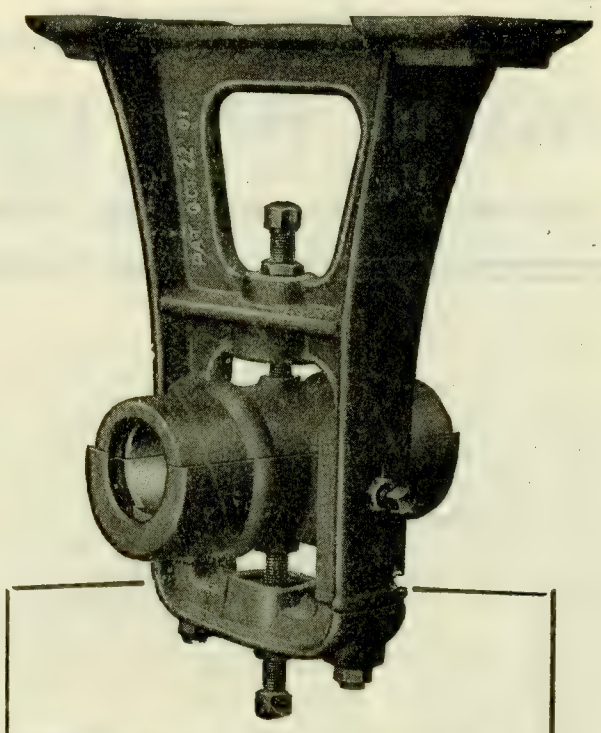
Barn (add.), Whitemarsh, Pa., $10,000. Architect, Walter H. Thomas, 130 South Fifteenth street, Philadelphia.. Owner, Wm. A. M. Fuller, Drexel Building, Philadelphia. Stone, 2 story addition, 24x20 feet, shingle roof, cement floors, hot water heat. Architect taking bids, due as soon as possible. F. Elvidge & Son, 5522 Germantown avenue, and John E. Walt, 204 East Willow Grove avenue, are figuring.

Manufacturing Building, Norristown, Pa. Architects, Lockwood-Green Co., 101 Park avenue, New York. Owners Wildman Mfg. Co., Norristown, Pa. Concrete, brick and steel, 5 stories, 115x78 feet, stone foundations, slag roof, concrete floors. Architects taking bids, due February 26th. Warren Moore Co., Colonial Trust Building, Philadelphia, are figuring.

Garage, Merion, Pa. Architects, Hewitt & Ash, 520 Walnut street, Philadelphia. Owner, Dr. George D. B. Darby, Merion, Pa. Stone and half timber, 1½ stories, 24x60 feet, 6x30 feet, stone foundations, tile roof, cement floors, steam heat, electric light, tile work. Architects taking preliminary bids from Wm. R. Graham, 3649 Filbert street, and Thomas Little & Son, 1713 Moravian street, Philadelphia.

Residence (alts. and add.), 643 West Chestnut street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Harry Raib, West Chestnut street, Lancaster, Pa. Brick, 2 stories, 9x33 feet addition, tin roof, maple floors, electric lighting, tile and marble work, plumbing. Architect taking bids, due as soon as possible. B. F. Bauchman, Woolwork Building, and W. C.

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Zorn, 24 South West avenue, both of Lancaster, Pa., are figuring.

Factory (add.), Lancaster, Pa., $30,000. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Novelty Works, Hubly Mfg. Co., Lancaster, Pa. Mill construction, 3½ stories, 85x61 feet, slag roof, plank floors, electric lighting, rolled steel sash, fire doors, elevators, steel skylights, fireproof vault. Architect has received bids.

Residences (6 pairs), Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, House Building Association, care of Mr. Soumner Brown, Woolworth Building, Lancaster, Pa. Brick, hollow tile and stucco, 2 stories, 16x44 feet, slag roof, pine floors, concrete foundations, hot air heat, electric light. Architect has received bids.

Laundry, Laurelton, Pa. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owners, State of Pennsylvania, Board of Managers, Village for Feeble Minded Women, Miss Nora P. Brown, president, Laurelton, Pa. Stone, 1½ stories, 30x80 feet, slate roof, cement floors. Plans in progress.

Department Store, Power Plant and Garage, Reading, Pa. Architect, Frederick A. Mulenberg, 901 Flanders Building, Philadelphia. Owners, Dives, Pomeroy & Stewart, Reading, Pa. Brick, reinforced concrete, 7 stories, 60x270 feet. Power plant, 1 story, 50x60 feet. Garage, 1 story, 50x100 feet, slag roof, composition, oak and pine floors, steam heat, electric light, tile work, hollow tile, metal lath, 3 elevators, safety treads, waterproofing and dampproofing. Plans in progress.

Hospital (add.). Nurses' Home and Service Building, Lancaster, Pa. Architect, M. R. Evans, 10½ Orange street, Lancaster, Pa. Owners, Lancaster General Hospital, care of M. Brightener, on premises. Brick, 4 stories, 2 stories and 2 stories and basement, 55x40 feet, 40x80 feet, 50x84 feet, stone foundations, slate and slag roof, hardwood and tile floors, electric lighting, tile, marble and terrazzo work, rolled steel skylights, fire doors, elevators, roof ventilators, metal weatherstrip. Plans in progress.

Residence (alts. and add.), Letitz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Elmer J. Eshleman, Letitz, Pa. Brick, 2½ stories, 20x40 feet, slag roof, hardwood floors, electric lighting, tile work, general interior alterations. Plans in progress.

Market (alts.) to Garage, East King street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, W. D. Ranck, 126 East King street, Lancaster, Pa. Brick, cement floors, steam heating, electric lighting, tile work, plate glass, general interior alterations. Plans in progress.

Power House, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, St. Joseph's Hospital, care of Sisters of St. Joseph, Lancaster, Pa. Concrete and steel, 1 story, 30x40 feet, reinforced concrete floors. Architect will take bids in a few days.

Store Building, South Queen and Willow streets, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Lewis Gauss, East King street, Lancaster, Pa. Brick, 4 stories, 245x32 feet, stone foundations, slag roof, hardwood floors, steam heating, electric lighting, tile work, granite and terra cotta work, elevators. Architect taking bids, due March 1st. S. H. Bally, 514 South Shippen street; W. C. Zork, 24 South West avenue; F. B. Bauchman, Woolworth Building, and H. L. Wiant, 544 Mill street, all of Lancaster, Pa., are figuring.

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ier, State Highway Commissioner, Capitol Building, Harrisburg, Pa. Low bidders:

Adams County, Straban, Tyrone, Huntingdon and Lattimore Townships and York Spring Borough, Route 123. Length 51,484 feet, one course reinforced concrete. George Merdinger, Bethlehem, Pa., $511,606.32.

Bradford County, Canton and Troy Townships and Canton Borough, Route 20. Length 43,573 feet, one course reinforced concrete. Trinidad Asphalt Paving Co., Larksville, Pa., $452,406.28.

Butler County, Conoquenessing and Butler Townships, Route 78. Length 31,663 feet, one course reinforced concrete. C. E. Walter, Butler, Pa., $337,058.41.

Cameron County, Shippen Township, Route 99. Length 20,643 feet, one course reinforced concrete. George Metzger, Jr., Emporium, Pa., $272,592.00.

Chester County, West Grove Borough, Route 131. Length 4,541 feet, one course reinforced concrete. Hill Construction Co., Philadelphia, $36,137.80.

Clarion County, Strattonville Borough, Route 64. Length 4,604 feet. One course reinforced concrete. L. H. Hileman Construction Co., Inc., New Kensington, Pa., $53,170.00.

Clinton County, Renovo Borough, Route 105. Length 3,928 feet, one course reinforced concrete. Hughes & Phillips, Clearfield, Pa., $71,282.25.

Elk County, St. Mary's Borough, Route 99. Length 3,169 feet, one course reinforced concrete. Minns Bros., DuBois, Pa., $45,773.60.

Huntingdon County, Mill Creek Borough, Route 33. Length 4,243 feet, one course reinforced concrete. J. Franklin Norris, Somerset, Pa., $42,716.95.

Luzerne County, Union and Hunlock Townships, Route 4. Length 16,880 feet, one course reinforced concrete. B. G. Coon Construction Co., Luzerne, Pa., $217,292.30.

Potter County, Pike and Ulysses Townships, Route 102. Length 21,665 feet, one course reinforced concrete. J. C. Bradley & Co., Wellsboro, Pa., $247,620.75.

Schuylkill County, Schuylkill & Blythe Townships and Tamaqua Borough, Route 162. Length 39,979 feet, one course reinforced concrete. M. A. Mangan, Pottsville, Pa., $3,474.75 and $373,031.60.

York County, Shrewsbury Township and Shrewsbury Borough, Route 127. Length 31,957 feet, one course reinforced concrete. The Weller Construction Co., Washington, D. C., $290,372.20.

York County, Springfield and Shrewsbury Townships and Loganville orough, Route 127. Length 25,755 feet, one course reinforced concrete. Comerford Construction Co., Philadelphia, $255,067.63.

Bank (alts. and add.), Chester, Pa., $49,750. Architect, Benj. Stevens, 1737 Filbert street, Philadelphia. Owners, First National Bank, Chester, Pa. Brick, stone and steel, 1 story and balcony, 15x26 feet, slag roof, cement and cork floors, hollow tile, terra cotta, metal lath, stone foundations. Contract awarded to Arthur Machin, 410 East Twentieth street, Chester, Pa.

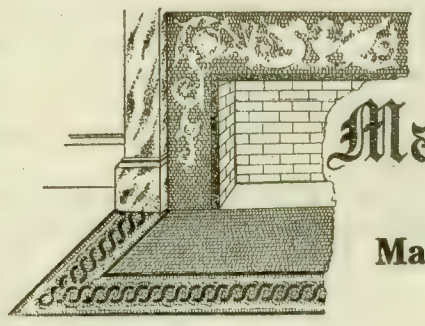
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NEW JERSEY Construction News

Apartment, Oriental avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Kandle & Ott, Atlantic City, N. J. Brick, 3 stories and basement, 40x65 feet, concrete foundations, slag roof, oak floors, hot water heat, electric light, tile work. Plans completed. Owners will build.

School (alts. and add.), Ventnor, N. J. Architects, J. Vaughn Mathis & V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, care of Wilburd Zimmerman, Ventnor, N. J. Brick, 2 stories, 37x31 feet, wing 33x24 feet, stone foundations, slag roof, marbloid and maple floors, electric lighting, hollow tile, metal lath, safety treads, roof ventilators, waterproofing, iron work. Architects taking bids, due March 1st. Standard Construction Co., 1713 Sansom street, Philadelphia; Philip G. Hannum, 16 North Georgia avenue, Atlantic City, and Chas. Corson, Northfield, N. J., are figuring.

Apartment, location withheld, $246,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner's name withheld. Brick, 5 stories, 90x100 feet, concrete foundations, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, elevators. Plans in progress.

Station and Drill Tower, Baltic and Indiana avenues, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Atlantic City, care of Dr. J. B. Thompson, Atlantic City, N. J. Brick, 2 and 4 stories, 55x100 feet, slate and slag roof, cement floors, electric lighting. Plans in progress.

Bank and Office, Atlantic and South Carolina avenues, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Chelsea National Bank, Mr. Bessor, cashier, 1309 Atlantic avenue, Atlantic City, N. J. Brick and stone, 7 stories, 70x70 feet, slag roof, tile and hardwood floors, electric light, tile and marble work. Plans in progress.

Cottage, Ventnor, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owner's name withheld. Hollow tile, brick, 2½ stories, 33x45 feet, 2 wings, 15x24 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Store, 922-24 Atlantic avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owners, Schwldenfre Dry Goods Co., Atlantic City, N. J. Brick, 3 stories, slag roof, maple floors, steam heat, electric light, tile and marble work, rolled steel skylights, elevators, roof ventilators, metal ceilings. Architect ready for bids.

Apartment (alts.), 207 South Rhode Island avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Olga Edwan, on premises. General interior and exterior alterations. Architect has received bids.

Garage, Maryland avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner's name withheld. Brick, 1 story, 50x175 feet, slag roof, cement floors, hot water heat, electric light. Architect has received bids.

Church (add.), Arctic avenue, Atlantic City, N. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Augustine's P. E. Church, Rev. James N. Deaver, rector, on premises. Hollow tile and plaster, 1 story, 131x35 feet, stone foundations, slate roof, maple and concrete floors, steam heat, electric light, hollow tile, rolled steel sash, iron work, waterproofing. Architect taking bids, due March 4th. H. John Homan Co., Middle City Building; Bowden Construction Co., 1713 Sansom street, both of Philadelphia; Charles D. Thompson, Pleasantville, N. J.; J. Mathis & Son, Guarantee Trust Building, and Philip G. Hannum, 16 North Georgia avenue, both of Atlantic City, N. J., are figuring.

Garage, Newark, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Sun Co., Newark, N. J. Brick, 1 story, 40x40 feet, slag roof, cement floors, steam heat, electric light. Owner taking sub-bids.

New Jersey Contracts Awarded

Garage, 11 West Boston avenue, Atlantic City, N. J. Architect, B. Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, F. McCaffrey, 11 West Boston avenue, Atlantic City, N. J. Brick, 1 story, 30x40 feet, slag roof, cement floors, electric light. Contract awarded to W. B. Porch, Guarantee Trust Building, Atlantic City, N. J.

Bakery and Store, 2311 Pacific avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner's name withheld. Brick, 1 story, 40x50 feet, slag roof, concrete and pine floors, electric lighting, tile and marble work, plate glass. Contract awarded to S. Dolinsky, 2 West Ventnor avenue, Atlantic City, N. J.

Miscellaneous Construction News

Buildings (28), American Coast Defense Station, Staten Island, N. Y. Architect, private plans. Owners, Construction Department of the Army, care of Constructing Officer, 39 Whitehall street, New York, N. Y. Stucco, frame, brick and steel, 1 and 2 stories, various sizes, stone foundations, slate roof, North Carolina pine floors, steam heat, electric light, hollow tile, metal lath, safety treads, waterproofing, dampproofing, iron work. Owner taking bids, due March 1st. Warren-Moore Co., Colonial Trust Building, Philadelphia, are figuring.

College Buildings, including Administration Building, Chapel, 2 Dormitories, Gymnasium, Power Plant and Cottages, Washington, N. C. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Washington Collegiate Institute, care of Dr. M. O. Fletcher, Washington, N. C. Brick, 2 stories,

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

various sizes, stone foundations, slate roof, cement, tile and oak floors, electric light, steam heat, tile and marble work, hollow tile, metal lath. Plans in progress. Too early for details.

Residence (alts. and add.), Washington, N. C. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Charles Flynn, Washington, N. C. Frame, 2 stories, 15x20 feet, shingle roof, oak floors, hot water heat, electric light. Plans in progress.

Theatre (alts.), Forty-second street and Seventh avenue, New York. Architects, Hoffman-Henon Co., Inc., Finance Building, Philadelphia. Owners, Stanley Theatre Co., 590 Seventh avenue, New York. New organ chamber, plastering, metal lath, electric work, carpentry, mill work. Architects taking bids, due as soon as possible. Pierce-Henon Co., Bulletin Building, Philadelphia, are figuring.

Manufacturing Building, Bridgeport, Conn. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Salts Textile Co., Bridgeport, Conn. Concrete, brick and steel, 1 story, 104x339 feet, gypsum and slag roof, cement floors, hollow tile, safety treads, rolled steel sash and skylights, fire doors, iron work (heating and electric work reserved). Contract awarded to Schwartz Bros. Co., Bridgeport, Conn.

ELEVATOR HAZARDS AS APPLIED TO THE GENERAL PUBLIC

By Dana Webster,

Safety Inspector for the Aetna Casualty and Surety Company, Indianapolis, Ind.

BEFORE taking up in particular the safety of elevators, it might be interesting to cover briefly the gradual development in the manufacture of mechanical lifting devices.

Lifting devices were undoubtedly used by Julius Caesar, as far back as 256 B. C., as history mentions the lifting of animals from the dens to the arena in the Colosseum of Rome. About the middle of the Nineteenth Century, platsforms or cable-hoisted elevators were first installed in New York and Boston, but were not provided with any kind of safety devices, and, strange to say, you can find a few elevators without safety devices even at the present time.

A few years later elevators were equipped with safety devices of such type that it was necessary for the hoist cable to break before the safety could actuate. There are a great many of this type of safety in use today, but with the introduction of high speed elevators, which were required to meet the demands of the public, quite naturally it necessitated a much better type of safety apparats and a multiplicity of cables.

Accidents could and did occur from over-speeding elevators caused by disarrangements of the controlling apparatus, an it became necessary to provide safety devices that would actuate should the elevator speed increase beyond a predetermined number of feet per minute.

The most essential elements of safety are the prevention of excessive speed from any cause, the overrunning of the limits of travel at top and bottom, safe protection at the landing entrances to the elevator and a regular examination of the cables and all parts of the elevator equipments.

The early type of the safety device was designed to stop the car instantaneously. They served the purpose satisfactorily for slow speed, but were not adequate for the higher speed of 400 to 700 feet per minute. It, therefore, became necessary to provide a safety device that would stop the car with an easy and gradual stop. This is accomplished by the friction clamp safety, which is actuated by a safety speed governor, usually set to trip at 40% above regular speed. This governor will act should the hoist cable break, allowing the car to drop, or should the car over-speed from some defect in the machinery after the governor trips and the car has dropped far enough to take up the clearance of the safety jaws. The jaws are forced hard against the guide rail (like a vise) and the car will continue to slide until the friction is enough to stop the car entirely. The distance the car will slide after the safety takes hold depends upon the load; but the further the car slides the tighter the safety grips the rail. Usually a car will drop about six feet after the governor trips and clamps the governor cable.

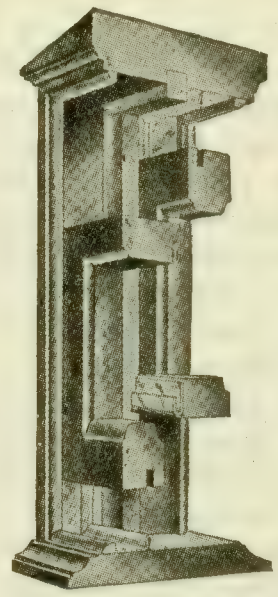
The Over-Running of Limit Stop.

The machine of all power operated elevators should be equipped with automatic limit stops; that is, a device that will stop the elevator at the top and bottom limit of travel, regardless of the operator.

On drum machines, the automatic limit stops should be built with and made a part of the machine.

On hydraulic elevators, the automatic limit stop should consist of a cut off valve, either in the to-and-from pipe, or in both the supply and discharge pipe.

On traction type of elevators, the automatic limit stops must be located in the



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hoistway, and the power cut off by the travel of the car. As there is more or less slippage of the hoist cables on the drive sheave, a machine automatic would not be dependable. In addition to automatic limit stops on electric elevators, there are hoistway limit switches located so that should the car travel a certain distance by the automatic limit stop, the car would open a switch, thus cutting off the power and stopping the machine.

The early types of passenger elevators —and in fact most elevators up to the present time—are provided with landing doors equipped with a catch located on the inside so that the door can only be opened by the operator. The operator, however, in order to make speed—and the public is partly to blame for this—starts the elevator before the door is closed, and quite often the door would not fully close and latch, thus providing a very dangerous condition. Many persons have opened the door when finding it ajar, and looking in the hoistway have either fallen or have been knocked down the hoistway by the car, and severely injured or killed. I might say right here that statistics show that 85% to 90% of all elevator accidents occur at the landing doors. Therefore, it became necessary to provide the landing doors with a locking device that would prevent the doors from being opened, unless the car was at a landing; also to prevent the car from being raised or lowered from the landing until the landing doors were closed. This is termed the interlocking device, or interlocks for landing doors. While I believe all landing doors of passenger elevators and gates for freight elevators should be equipped with interlocks, I am sorry to say that at the present time only a small percentage of elevators are equipped with this device, although they are becoming more and more in general use.

Cables.

The cables are the most essential parts of the elevator equipment, and their number and size should be equal to the load with a good factor of safety. The sheave should be of ample size and placed in alignment to prevent chafing of the cables on the sides.

A great many elevator accidents are not due to faulty design in construction, machinery, or safety device, but to the carelessness of the injured party. It, therefore, becomes necessary for the city or State to enact ordinances and laws regulating the construction of elevators, and enforcing their equipment with effective safety devices, in the interest of accident prevention; that is to say—to prevent a person from being injured by his own carelessness, and also by the carelessness of the operator.

Careful Inspection a Requisite.

"Are the safety devices kept in proper condition" is one important feature. The only way this can be accomplished is by having the elevator regularly inspectted by a competent elevator inspector, who should inspect all the different safety devices, machinery, cables, etc., in fact everything pertaining to the elevator. The landing doors should be tried to determine whether they can be opened from the outside. The car safety device should be tested to be sure that it would actuate and hold the car from falling, should the cable break. The automatic limit stops should be tested so as to be sure the car will not over-run and strike the overhead beams or bumpers. The slack cable device should be tested to be positive the power would be cut off, should the cables slacken. The brake should be examined to be sure there is no slippage. The cables should be examined very carefully for defects, as there is no part of the elevator that requires the exercise of more good judgment than the examination of the cables. It is just as essential that the safety devices, and all parts of the elevator, be kept in good working order, as it is that they should be installed in the first place. After an inspection has been made, the owner should proceed immediately to install safeguards and remedy any defects reported.

The elevator should be oiled and greased regularly by the engineer and looked over carefully for any defects, and not wait for an inspector to make a thorough inspection, and oftentimes the engineer will discover some little defect which if fixed immediately may avoid a serious accident.

There is another feature that I wish to mention before closing; that is the elimination of mirrors, in fact all glass, from the passenger cars—except the electric light bulbs—not only because of the fact that they are liable to cause injury to passengers by getting broken, but also because of their attraction, which results in passengers failing to notify the operator promptly as to their destination. This necessitates a stop between floors, and a trip back to let them off. They also have a tendency to retard the loading and unloading of the cars.

ESTIMATING

By Cyrus J. Parker.

There is no question in my mind but what we all make errors in estimates. As a matter of fact, when we get a job that is when we begin to wonder where we have made our error. I have heard fellows say: "How in the devil did I make my mistake?" they feel that contracts are let on errors, judging from the amount of money the contractors claim they have left when they complete their work. You will find in estimating that a man will have to make up a system of his own. I think that every man's method of contracting is peculiar to himself. It would be impossible for me to lay down such a system for another man, while I might take the system I have worked out and be very successful with it. You can buy trade accounts and hand books on estimating, and the majority of them I have read I would not give the snap of my finger for. The work is always different. You never have two pieces of work that cost the same, with all the different classes of architecture.

I just wanted to call your attention to a few methods of estimating. I happened to spend a few years in Louisiana, and I knew a contractor there in particular who put in his estimates on the basis of cubing or squaring a foot in figuring on it. He is not in business any more. It also reminds me of a fellow who secured a set of plans that were quite bulky, and after looking them over handed them to his partner saying: "Take these damn things and go and weigh them and we will put it in." I know another contractor who claimed he could take a set of plans home in the evening and bring down a figure the next morning. He does it and it is remarkable how close he comes to the value of it. But personally I would not want to risk that kind of a method. For my part I would rather take all of the quantities off in detail and base the estimate on some method of cost keeping that we might adopt. Each one would have to do it to suit himself. There is one advice I would like to give, however, and that is, if you keep a cost system, do not keep it in such a cumbersome manner that you can not handle it. I knew a contractor in Portland who did a large business but used a worn out cost system, and he could not use it any further and he went broke. To my mind, after you have a cost system worked out, you must have it in simple form so that you can combine it with good business judgment and the experience you have had in previous work, basing your estimate accordingly.

In estimating a plan it is necessary to find everything on it. If you do not, you may find after you have signed the contract a few lines of notes on the specifications that may cost you hundreds of dollars. I heard of a fellow who was

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constructing a building and noticed the initials "T R" in all the doors on the plan. After he had the building plastered came around and asked him where he was going to put the transoms. His answer was: "There are no transoms on this building plan." The architect said, "Yes, there are. Let me have the plan and I will prove it to you." He proved it to him as he had "T R" on every door. After that experience the contractor always looked for all the T R's on the plan in every contract he secured.

I happened to be brought in on an arbitration at one time where the contractors figured from a large plan one-eighth of an inch scale drawings. They had a large marker there, and from the elevation you might have struck there was a cornice around it that might have been of ordinary galvanized iron. The contractors presumably figured on some character of cornice on the outside. After the contract was signed and the building partially completed, the details showed a heavy cast iron cornice around the outside and cross beam incased in cast iron. The cast iron alone cost $1,100. The arbitration committee allowed the contractor for that. But it is evident that in figuring a plan we should not take the chance with ⅛ inch scale drawing and put in a figure where we stand the chance of losing money as this man did. And even if he did get the money allowed him by the arbitration board there was trouble and dissatisfaction with the architect and all concerned. It is best to ask for details. Some contractors seem to think if you go to an architect and ask for details he will think you do not know your business. I think that is a part of their business; that is what they are getting paid for, furnishing details so a man can figure intelligently on a plan and not take a chance.

Another thing! An architect frequently resorts to generalities in his specifications, such as "according to the satisfaction of the architect, and "in first-class workmanlike manner" and "materials the best quality." Those are a few and there are many others that they put in specifications to which you have to give consideration in estimating. How is a contractor to know the specific temperamentalism of an architect when he wants it done to the satisfaction of the architect, when he does not know what will satisfy the architect? So there should not be a general item of that kind in the specification.

There is not one contractor in a hundred who reads the clause, "materials of best quality" and realizes the interpretation than an architect intends to place on it. These must all be considered in estimating. If you do not do so, an architect, if he is inclined to be unscrupulous, could make it very unpleasant for a contractor. And then comes the old clause saying: "This is intended to be a complete job, supposed to include everything necessary even though it is not particularly mentioned." Half of the plumbing might not be mentioned. But the part that is not mentioned, must be put in, if you have that kind of a specification. You must consider all these items in compiling your estimates. They are just as important as taking off the quantities. In fact they are often more important.

There is another thing: In the past many contractors resorted to asking sub-bids on their work. Possibly at the present time many do this and possibly many may do so in the future. They act on the sub-bids they get and guess at the rest. A lot of them take sub-bids, and immediately after they have been awarded the contract, the contractors forget the sub-bidder who gave the bid and wasted time on it, and immediately start out to find more after having taken the time of the original sub-bidder. Another method practiced by a contractor I once knew, whom I should say is out of business at this time, was to take sub-bids and revise them five per cent., saying he would beat the sub-bidder out of that much and that would make his regular bid five per cent. lower than the rest of the general contractors.

It seems that it might be possible for contractors to get together and adopt some system of quantity surveying. We would not need to make it a guaranteed survey but employ some man in the association. We would not be bound to use the figures of the survey, but it could be used as a check against the quantities we take off. It seems to me that we might work up something along this line that would be beneficial to contractors generally. It is not practical for contractors to take the immense risks taken by them in the past. Contracting is just as legitimate a business as any mercantile business carried on in a legitimate manner and I would favor the establishment of a method of opening up bids that would prevent any increase being made to them before they are put in. It is possible to select one out of the association and turn all the bids over to him and let him check them or audit them in a way, and if he finds an error let him refer it back to the original bidder. It would would be a check on his estimate and at the same time it would be playing the cards on the table. We have passed the stage where we can play other than the square game. The old time contractors who played the game of opening up figures and adding a certain amount to them have lost all the money they made on that method of figuring.

I believe that is about all I know about estimating. The chances are that I follow about the same method the rest of you do. However, I believe the contractor should prepare himself so that he would take the entire quantities from the plan and not be tied up to a sub-contractor. I think, as a matter of fact, the contractor who plans to take all of the quantites off himself is in a better position to take the figures after he has the job than he is before the job is awarded.—*Architect and Engineer.*

WHAT MAKES SUCCESS.

By Charles Grant Miller

Select a dozen of the most successful men you know. They will show every possible variation in their physical and mental characteristics.

They will include tall and short, fat and lean, brunette and blonde, handsome and homely. There will be among them Americans, Englishmen, Frenchmen, Irishmen, Germans and Canadians. Some are young, others middle-aged and some past the meridian. Their weights will run from 105 to 250 pounds.

Mentally the differences are just as great. There will be optimists and pessimists, brilliant talkers and silent men; some nervous and fussy and others with poise; some buoyant and others sedate; some fond of companionship, others solitary; sme are neat, others careless, and they dress in all degrees of fashion. They differ just as widely in intellectual attributes as they do in physical characteristics.

Of course, there are pronounced qualities that count decidedly against a man, and there are other qualities that count strongly in a man's favor. But every day almost we see the man with the unfavorable qualities winning out, and the man with everything in his favor failing.

It always has been so.

Then, what is it, lying deep within the man and hidden from the surface, which impels him to success?

It is not environment—not what we commonly call opportunity. The greatest successes in history and in every-day modern business are achieved by men whose environment was unfavorable, apparently, and who had no opportunities that were visible except through their own peculiar vision. Their opportunities lay within themselves, not outside.
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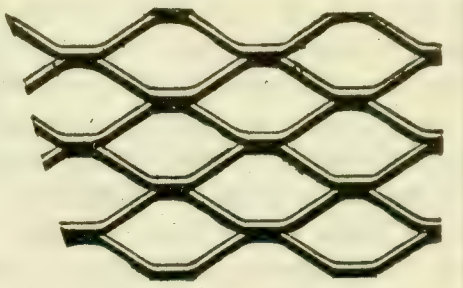
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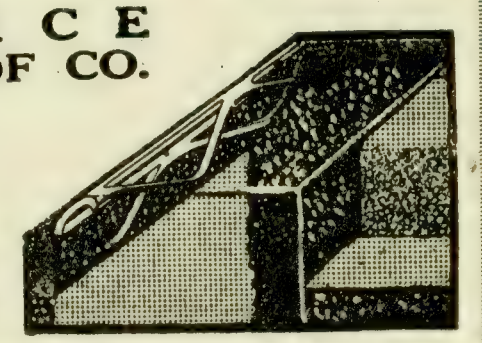
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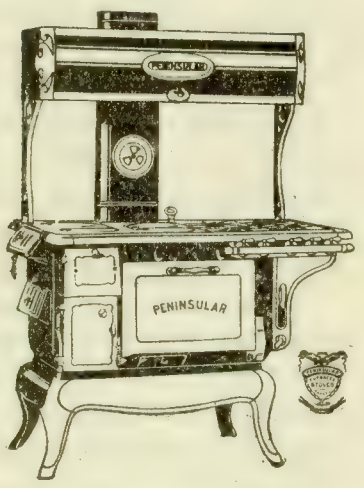
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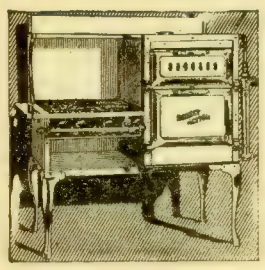
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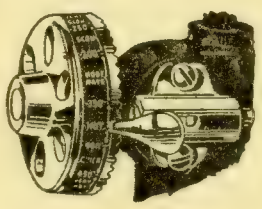
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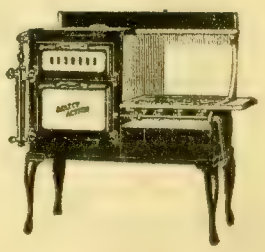


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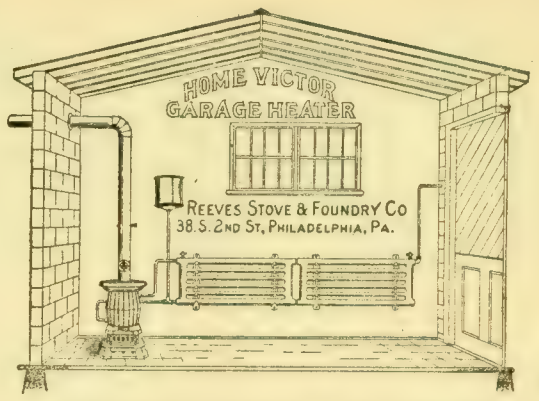
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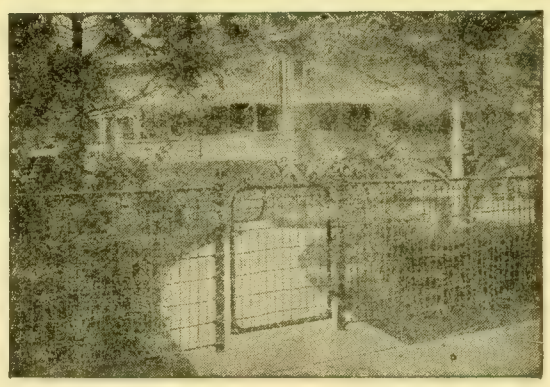
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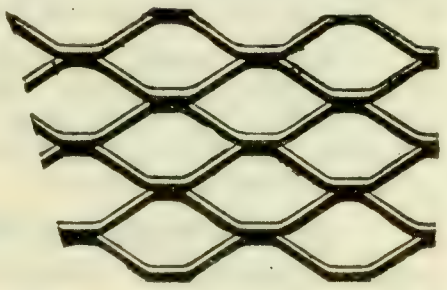
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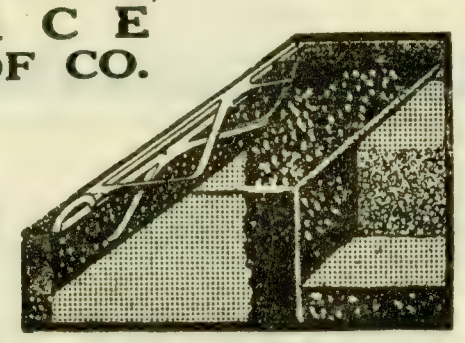
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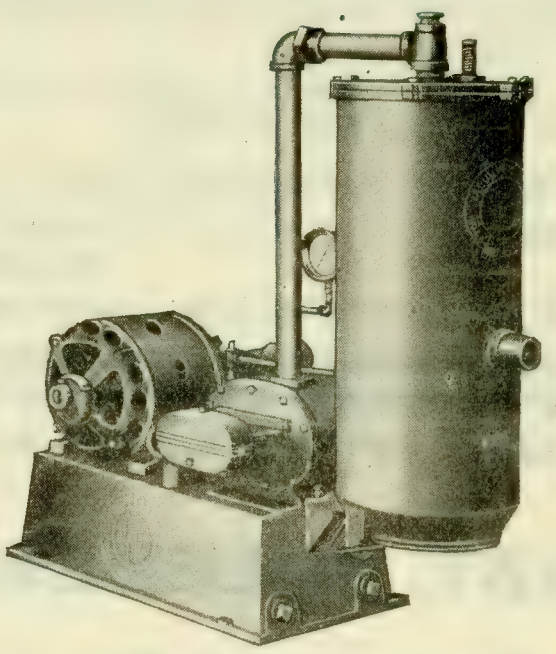
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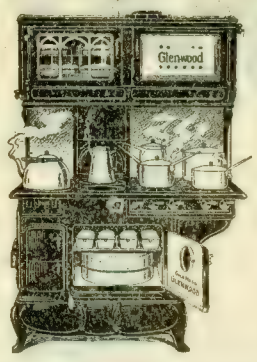
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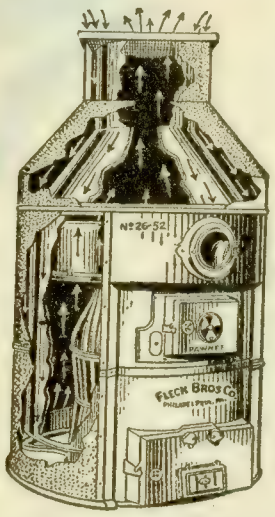


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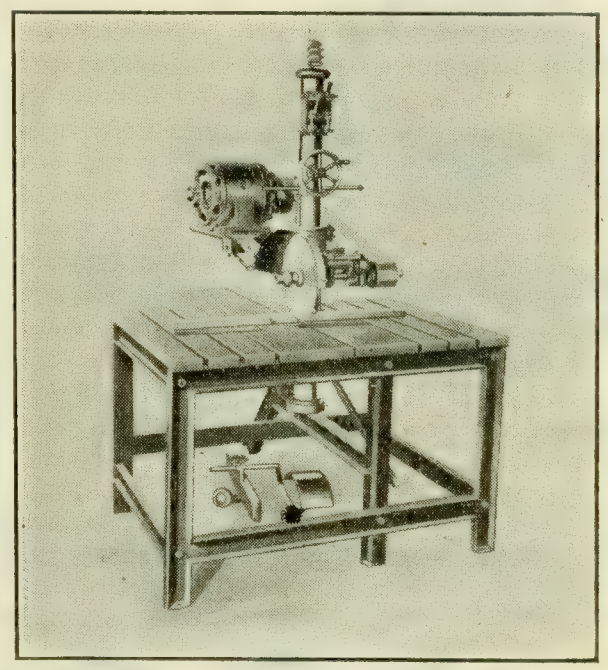
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VOLUME XXXV
Number 9

PHILADELPHIA
March 3, 1920

BUILDERS' GUIDE

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As The Editor Sees It

THERE was a time about eighty years ago, when eggs in this country sold for six cents a dozen; when a chicken could be bought for eight cents, and when a gallon of whiskey could be purchased for thirty-two cents! Yet we should be very foolish even to wish to exchange those days for the times in which we are now living. Money was so tight that a great deal of buying was done simply by the exchange of one commodity for another.

Today we have the most wonderful opportunities; the most favorable conditions that have ever existed in this country. From every state in the union come reports of splendid financial and business conditions. Georgia, the state where fishing used to occupy almost as much time as business, has now forgotten how to fish and needs all its time to transact business. There, too, labor troubles are few, due to the very small proportion of foreign-born citizens. California, its bankers tell us, has never had such large bank and savings deposits as at present. Never has there been so much money in the country; never such industrial opportunities!

There is, however, a weevil eating at the heart of the prosperity which should and can be ours if we only use the opportunities before us. This is the weevil of under-production and inefficiency of labor. Of course, inflation, which The Federal Reserve Bank is now operating to decrease; profiteering; extravagance; all have their share in the high prices of today—but nothing can help to so great an extent, to bring prices down, as a great increase in production; and no class in America today controls the situation to any greater extent than Labor. Much is being done to open the eyes of laboring men to the folly of more strikes and more demands at this time, but the work is only begun and must be carried on more vigorously, as we can easily realize when we read in the *American Contractor* that—

Chicago Building Trades Labor is reported to be making the initial move for a wage scale which will call for $1.25 an hour in most of the trades. Nothing could be more unfortunate than an extravagant demand of this kind, backed up by organized labor at this time in the city of Chicago. The public should understand the significance of this move. It is a campaign of profiteering by labor and profiteering of the most vicious sort.

Last year, during the months most favorable to building activities, a strike and lockout brought about the complete suspension of building in Chicago. Like all other cities, on the signing of the armistice, Chicago had a determined housing problem and it has grown more serious each week from that day to this. The daily papers are full of complaints about high rents and profiteering landlords and the city council is doing all it can to force down rents. Its efforts are futile. The damage has been done. It was done last summer when, instead of working day and night in order to provide the housing facilities so badly needed, the building industry was idle because of the controversy between the employers and the employes.

This idleness made the housing shortage more acute. As the conditions now are Chicago must build houses and apartments this summer regardless of cost. The building trades labor unions realize this. They now come forward with the proposition of capitalizing this public necessity and forcing from the builder and the contractor a wage of $1.25 per hour, an extravagant demand in every sense of the word, and in addition to the demand as far as is now evident, there is no disposition to give any guarantee that the laborer who proposes to force $1.25 an hour will in any fashion give his maximum production during that hour. There is no guarantee that if the wage is granted further unreasonable demands will be absent during the rush season of this year.

There is a limit to all things and it seems the building trades labor of Chicago has reached that limit and the public interest demands that this form of profiteering be fought to the last ditch.

We are willing to admit there is an occasional contractor and an occasional

(Continued on Page 183.)

DRAWING MATERIALS

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Garage, Swanson and Fitzwater streets, Philadelphia. Architect, private plans. Owners, Pennsylvania Warehouse and Safe Deposit Co., 113 South Third street. Brick, 1 story, 143x68 feet, wings 52x56 feet and 36x79 feet, slag roof, cement floors, hollow tile, stone foundations, rolled steel sash, iron work (electric work and heating reserved). Owners taking bids, due March 8th. H. E. Baton, 1713 Sansom street, is figuring.

Store and Apartments (alts.), northwest corner of Fifth and South streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Harry Krengel, northeast corner of Fifth and South streets, Philadelphia. Terra cotta and tile front, hardwood floors, steam heating, electric lighting, tile work, plumbing. Plans completed. Architects will be ready for bids in a few days.

Office Building, 1809-11 East Allegheny avenue, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Potts & Thomson, 2521 Frankford avenue, Philadelphia. Brick, steel and limestone, 2 stories, 31x48 feet, slag roof, pine floors, metal lath, stone foundations steam heat, electric lighting, rolled steel sash, iron stairs, iron work, metal lath, roof ventilators, tile, marble and terrazzo work. Architect taking bids, due March 13th at 3 P. M. Cramp & Co., Denckla Building; Frank G. Stewart, 1619 Sansom street; H. E. Baton, 1713 Sansom street; Wm. R. Dougherty, 1610 Sansom street; Edw. Fay & Son, 2 South Mole street; F. T. Mercer & Co., 1706 Delancey street, and Wm. H. Eddleman & Son, 453 Green Lane, Roxboro, Pa., are figuring.

Church (fire repairs), Sixteenth and Jefferson streets, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owners, Messiah Lutheran Church, on premises. Stone, new roof, general renovation. Preliminary plans in progress.

Stores and Apartments (18), west side of Fifth street, north of Olney avenue. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Roth & Foley, Inc., 5530 North Fifth street, Philadelphia. Brick and stone, 3 stories, 16x70 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, hollow metal skylights, flush bulks, metal lath. Plans about completed. Owners will take sub-bids in one week.

School (alts.), York and Memphis streets, Philadelphia. Architect, private plans. Owners, Board of Education, Eighteenth above Chestnut streets, Philadelphia. Plastering, carpentry, millwork, painting. Owners taking bids, due March 3rd. Mitchell Bros., 2125 Race street; Thomas Reilly, 1616 Thompson street; J. H. Jordan, Thirty-first and Oxford streets; E. C. Durell, 1615 North Twenty-fourth street, and Bowden Const. Co., 1713 Sansom street, are figuring.

Property (alts.), 708 North Seventh street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Benj. Sattler, 200 South Penn Square Building, Philadelphia. Brick, 3 stories, carpentry and millwork, structural steel, marble work, roof repairs, plastering, hardware, painting, glazing, plumbing, electric work and heating repairs. Owner taking bids, due March 5th. Smith-Hardican Co., 1606 Cherry street, is figuring.

Residence, Servants' Quarters and Garage, Fifty-fourth and Overbrook avenue, Philadelphia, $50,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. Sonnenfeld, 287 South Sixty-third street, Philadelphia. Stone, brick and stucco, 3 stories, 48x30 feet, wing 30x18 feet, Spanish tile roof, oak floors, metal lath, stone foundations, hot water heat, electric light, tile and marble work, metal lath, cement work. Plans about completed. Owner will be ready for sub-bids in one week.

Residences (6), Tacony, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, James Orr, Bustleton Pike, Frankford, Philadelphia. Brick, stone and stucco, 2½ stories, 18x46 feet, slate and tile roof, stone foundations, hot water heat, electric light, tile and marble work, hardwood floors. Plans in progress. Owners will be ready for sub-bids in ten days.

Store (alts.), 942 Market street, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Store Co., Fifteenth and Chestnut streets, Philadelphia. Masonry, carpentry, tile and marble work, plastering, metal work, plumbing, painting, metal ceilings (electric work, millwork, kalamein doors, store fixtures and glazing reserved). Owners taking bids, due March 5th. J. M. Yardley, 1716 Sansom street; Smith-Hardican Co., 1606 Cherry street; Edw. Fay & Son, 2 South Mole street; Ketcham & McQuade, 1029 Brown street; Charles Gilpin, Harrison Building, are figuring.

Residence (int. alts.), 151 Maplewood avenue, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner's name withheld. Brick and tile work, millwork, plumbing, painting, repairs to roof, general interior alterations. Architects have received bids.

Dispensary Building (alts. and add.), Tabor road and York road, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Jewish Hospital, on premises. Stone and steel, 1 story, 18x15 feet, 2 wings, tin roof, pine floors, metal lath, stone foundations, tile work (heating, plumbing and electric work reserved), iron work. Architects have received bids.

Factory (add.), southwest corner of Sixth and Tabor Road, Philadelphia, $185,000. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Proctor & Schwartz, on premises. Reinforced concrete and steel, 4 stories, 145½x73 feet, steam heat, electric lighting, slag roof. Owners will build.

Warehouse, C street, north of Westmoreland street, $12,000. Architect, private plans. Owners, Wm. Steele Sons & Co., Sixteenth and Arch streets, Philadelphia. Brick, 2 stories, 94½x41½ feet, slag roof, pine floors. Owners will build.

Apartments, 1512-14 Spruce street, Philadelphia. Architect, Henry L. Reinhold, 1513 Walnut street, Philadelphia. Owners, Argonne Apartments, care of architect. Brick, stone, steel and terra cotta, 15 stories, 44x197 feet, slag roof, maple floors, hollow tile, elevators, dampproofing, stone foundations, steam heat, electric lighting, tile and marble work, rolled steel skylights, hollow metal doors, iron stairs, iron work. Architect taking approximate bid from John R. Wiggins, Otis Building, Philadelphia.

Manufacturing Building, southwest corner of Tenth and Pearl streets, Philadelphia. Architect, private plans. Owners, Jarden Lithographic Co., on premises. Brick, concrete, steel, 2 stories, 38x52 feet, slag roof, maple and concrete floors, fire doors, hollow tile, waterproofing, iron stairs, iron work, stone foundations, rolled steel sash (heating and electric work reserved). Frank I. Wintz, 1618 North Twenty-fourth street is taking sub-bids.

Store and Apartments (alts. and add.), 708 North Seventh street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth st., Philadelphia. Owner, Benj. E. Sattler, 200 South Penn Square Building, Philadelphia. New front, stone foundations, marble work, metal lath, carpentry, plastering, plumbing, hardware. Owner is ready for general bids.

Factory Building, Sixty-ninth and Market streets, Philadelphia. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owner's name withheld. Brick, 1 story. Plans in progress. Will be ready for bids in about two weeks.

Building (remodeling), 5425 Germantown avenue, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owners, Masonic Association, on premises. Reinforcing walls, steel work, maple floors, steam heating, electric lighting, tile work, new windows, metal ceilings, flush bulks. Plans in progress. Will be ready for bids in one month.

Store (alts.), 441 Market street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Frank Bloch, 507 South street, Philadelphia. New front, flush bulks, electric lighting. Plans completed. Ready for bids.

Club House, Front and Erie avenue, Philadelphia. Architect, Frank R. Watson, 1211



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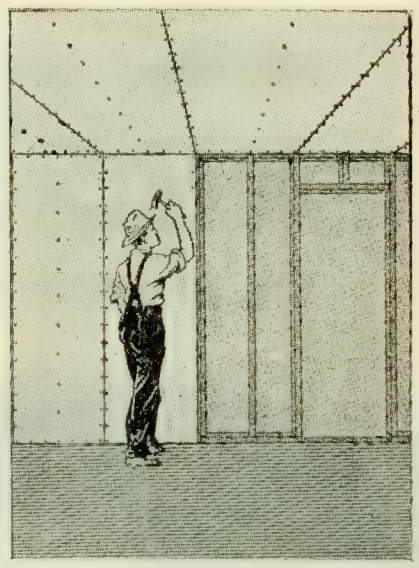
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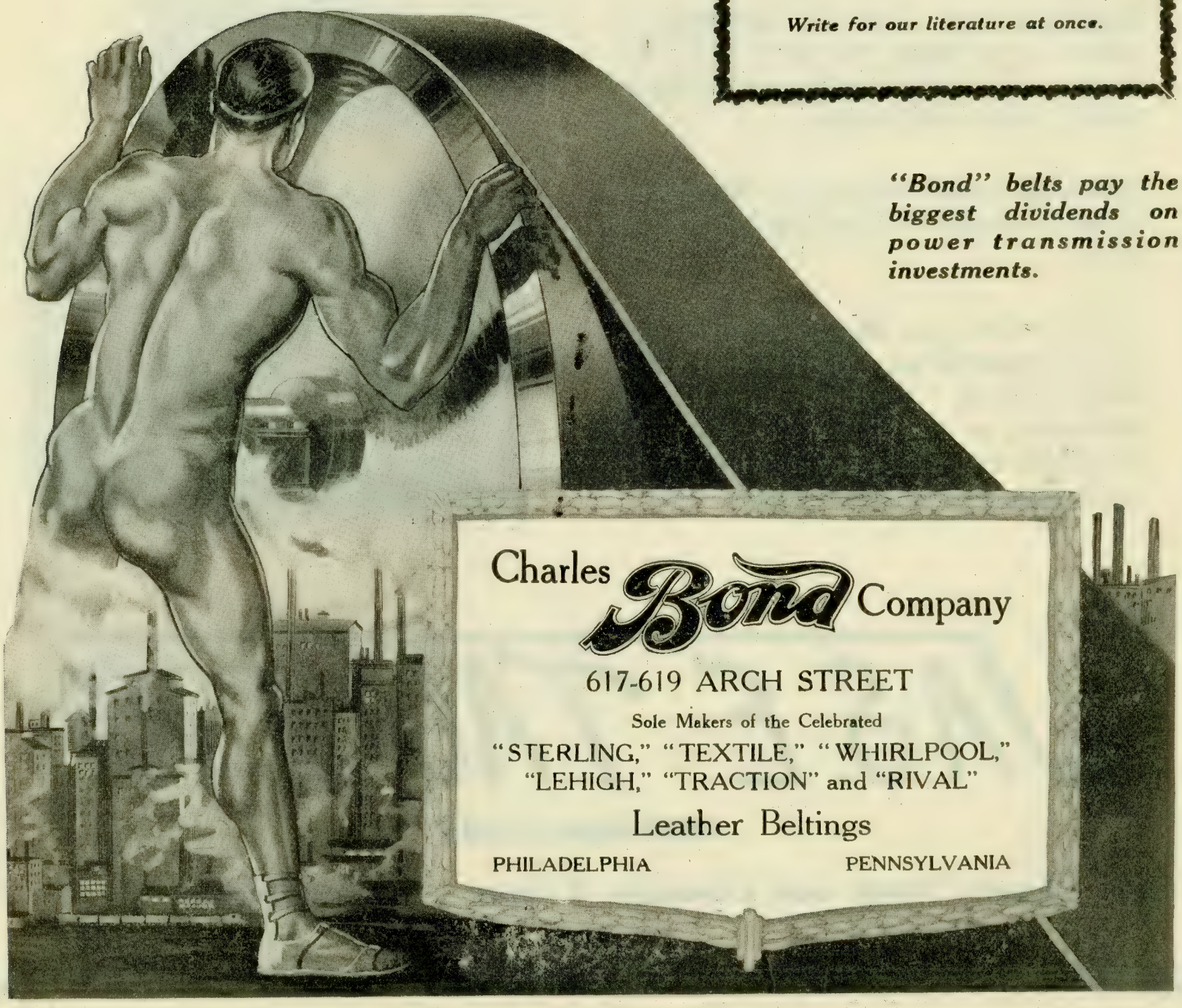
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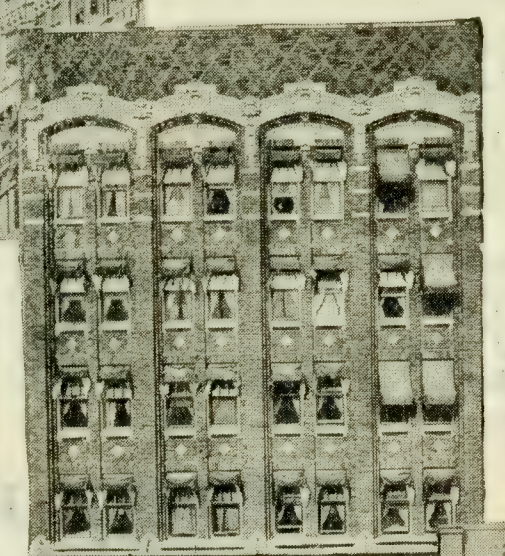
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Above is the Cosden Building, Tulsa, Okla., covered by a Barrett 20-year Specification Roof. Arch.: Henry F. Hoit, Kansas City. Gen. Cont.: G. A. Fuller Construction Co., N. Y., Roof Cont.: Standard Roofing & Metal Co., Tulsa, Okla.

At right, Ketchum Hotel, Tulsa, Okla. Arch.: Geo. Winkler, Tulsa, Okla General Cont. Van Horn & Brickner, Tulsa, Okla. Roof Cont.: Builders' Supply Co., Tulsa, Okla.

Below "Mid-Co." Bldg, (Mid Continent Oil & Gas Co.), Tulsa. Okla. Arch.: Schumacher & Atkins, Tulsa, Okla. Gen. Cont.: Hoffman Bros., Kansas City, Roof Cont.: Builders' Supply Co., Tulsa, Okla.





Below: S. H. Kress Building covered with a Barrett 20-Year Specification Roof. Roof Cont. Tulsa Roofing Co., Tulsa, Okla.

At the left: Kennedy Building, Tulsa, Okla. Architect and Gen. Cont.: A. W. Black & Son, St. Louis. Roof Cont.: Builders' Supply Co., Tulsa, Okla.

Below: R. M. McFarlin Building, Tulsa, Okla. Arch.: Geo. Winkler, Tulsa, Gen. Cont.: Van Horn & Brickner, Tulsa. Roof Cont.: Builders' Supply Co., Tulsa.

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Walnut street, Philadelphia. Owners, Hess-Bright Manufacturing Co., on premises. Brick and reinforced concrete, 1 story and basement, 68x150 feet, slag roof, steam heat, electric lighting, cement and hardwood floors, plumbing, kitchen and cafeteria equipment. Architect has received bids.

Residences (6), Forty-sixth and Walnut sts., Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Harrison M. Diesel, 5039 Springfield avenue. Brick, 3 stories, garages in basement, 21x62 feet, slate and slag roof, hardwood floors, hot water heating, combination light, tile and marble work. Owner will be ready for sub-bids in one week.

Offices (alts.), 1309 Locust street, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owner, Henry P. Schneider, 3713 Old York Road, Philadelphia. New terra cotta front, 4 stories, hardwood floors, steam heating, electric lighting and general interior alterations. Plans in progress. Owner will take sub-bids in about two weeks.

Office Building, northeast corner of Sixteenth and Sansom streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Keller Eng. Co., Inc., Otis Building, Philadelphia. Brick, terra cotta, steel and concrete, 4 stories, 20x56 feet, slag roof, composition and maple floors, metal lath, elevators, safety treads, waterproofing, iron work, stone foundations, tile and marble work, rolled steel skylights, fire and kalamein doors (heating and electric work reserved). Architects have received bids.

Residences (4), Frankford, Philadelphia. Architect, Samuel D. Milner, 1118 Foulkrod street, Philadelphia. Owners, Jackson & Stobbs, care of architect. Brick, 2½ stories, 16x50 feet, stone foundations, tile and tin roof, oak and pine floors, hot water heat, electric light, tile and marble work. Architect taking sub-bids, due as soon as possible.

Residence (alts. and add.), 1518 Orthodox street, Philadelphia. Architect, Samuel D. Milner, 1118 Foulkrod street, Philadelphia. Owner, Richard Crankshaw, Jr., 1518 Orthodox street, Philadelphia. Brick, 2 stories, 15x20 feet, stone foundations, slate roof, oak floors, hot water heat, electric light, plastering, plumbing, millwork, carpentry, hardware. Architects taking sub-bids, due as soon as possible.

Church, Torresdale avenue and Howell st., Wissinoming, Philadelphia. Architect, Samuel D. Milner, 1118 Foulkrod street, Frankford, Philadelphia. Owner, Wissinoming Presbyterian Church, care of Rev. Wm. A. Cook, Wissinoming, Philadelphia. Stone, 1 story, 40x80 feet, stone foundations, slate roof, steam heat, electric light, pine floors. Architect taking sub-bids, due as soon as possible.

Garage, Water and Wolf streets, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owners, Pottash Bros., 612 North American street, Philadelphia. Brick and concrete, 1 story, 40x60 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, hollow metal skylights, ornamental iron work. Architect ready for sub-bids.

Building (alts. and add.), 1218 Locust street, Philadelphia. Architect, Samuel D. Milner, 1118 Foulkrod street, Philadelphia. Owner, B. C. Warnick, 1218 Locust street, Philadelphia. Brick, 12x30 feet, second story addition, slag roof, pine floors, hot water heat, electric light, plastering, plumbing, hardware, iron work. Architect taking sub-bids, due as soon as possible.

Hospital (add.), Broad and Mifflin streets, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Agnes' Hospital, Broad and Mifflin streets, Philadelphia. Brick, fireproof, limestone trimmings, 6 stories, 137x32 feet, 2 wings 72x30 feet, stone foundations, tile roof, cement floors,

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Bank (alts. and add.), 6014 Market street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Haddington Title and Trust Co., 6014 Market street. General changes, exterior and interior. Plans in progress. Too early for details.

Grand Stand, Wissahickon, Philadelphia. Architect, private plans. Owners, American Bridge Co., care of M. A. Seaman, Pencoyd plant, Philadelphia. Frame, concrete foundations. Owners taking bids. Wm. H. Eddleman & Son, 453 Green Lane, are figuring.

Residences (2), south side of Tyson street, west of Walker street, $5,000. Architect, private plans. Owner, E. Samuel Gercke, 3522 Princeton street, Philadelphia. Brick, 2 stories, 16 feet 4 inchesx47 feet, hot water heating, electric lighting, slag roof. Owner will build.

Garage, Fifty-second and Pentridge streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Charles E. Biddle, 1105 Real Estate Trust Building, Philadelphia. Brick, 1 story, 40x95 feet slag roof, cement floors, steam heat, electric light, gasoline storage system. Architect ready for sub-bids.

Residence (int. alts.), 1902 Arch street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Samuel Englander, Crozer Building, Philadelphia. Brickwork, fire escape, carpentry, millwork, plastering metal lath, repairing roof, plumbing. Architects have received bids.

Manufacturing Building, 712-14 Sansom street, Philadelphia. Architects, Greisler-Abramson Co., Lafayette Building, Philadelphia. Owners, Aisenstein & Gordon, 712 Sansom street, Philadelphia. Brick steel and concrete, 4 stories, 36x100 feet, slag roof, pine floors, steam heat, electric light, tile and marble work, hollow tile, metal lath, new front, plate glass, fire doors. Architect taking bids, due March 6th. Wm. R. Dougherty, 1610 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine street; Ketcham & McQuade, 1029 Brown street; George H. Evans, 45 N. Thirteenth street, and Frank G. Stewart, 1619 Sansom street, are figuring.

Store and Dwelling, Broad and Hunting Park avenue, Philadelphia. Architect, private plans. Owners, M. Getz & Son, Fifteenth and York streets. Brick, terra cotta, 2 stories, 146x18 feet, stone foundations, slag roof, oak floors, electric light, tile and marble work metal lath (heating and plumbing reserved). Owners have received bids.

Loft Building, Thirteenth and Florist streets, Philadelphia. Architect, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owner, name withheld. Brick, steel, concrete, 6 stories, 112x45 feet, stone foundations, slag roof, concrete floors, steam heat, electric light, tile and marble work, rolled steel sash, kalamein doors, elevators, iron work. Architects have received bids.

Apartments (5), Seventeenth and Butler streets, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, Jacob Marcus, 17 North Sixth street, Philadelphia. Brick, steel, terra cotta, — stories, 18x35 feet each, stone foundations, slag roof, oak and mineral floors, tile and marble work, metal lath, kalamein doors, iron stairs (plumbing, heating, electric reserved). Architect taking bids due March 4th. H. E. Baton, 1713 Sansom street; John N. Gill & Co., Otis Building; Hogg Const. Co., Denckla Building; E. E. Hollenback, Inc., 1804 Brandywine street;

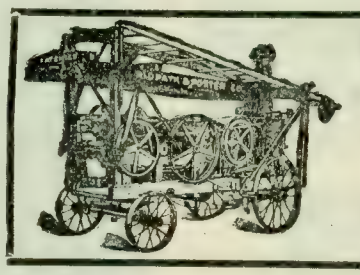


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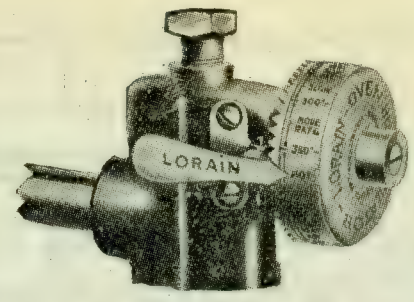
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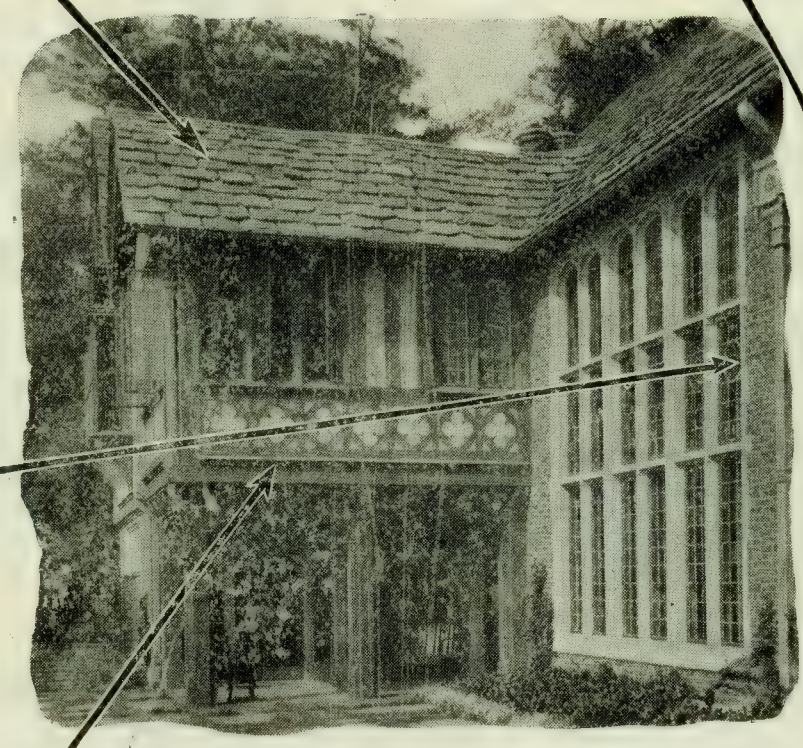
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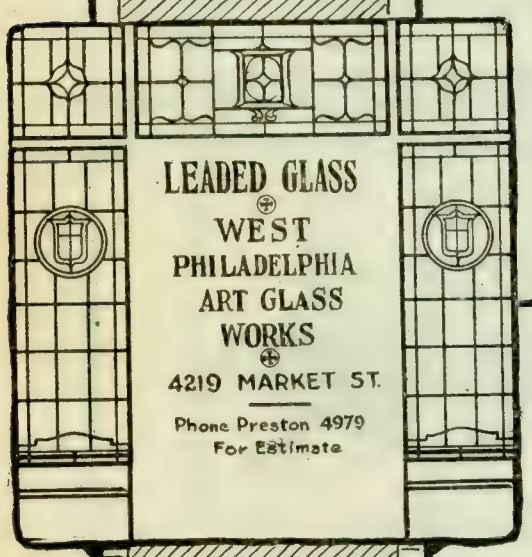
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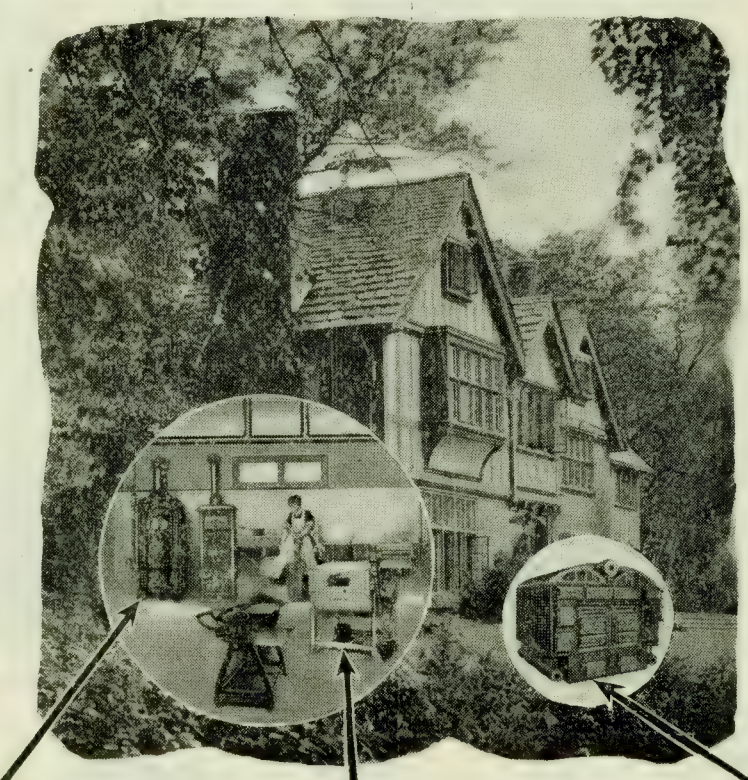




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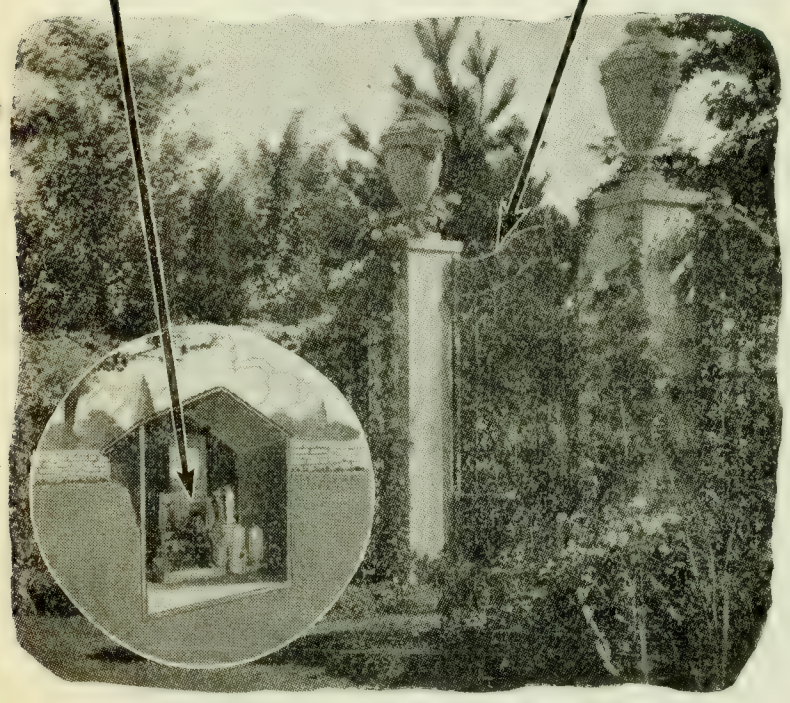
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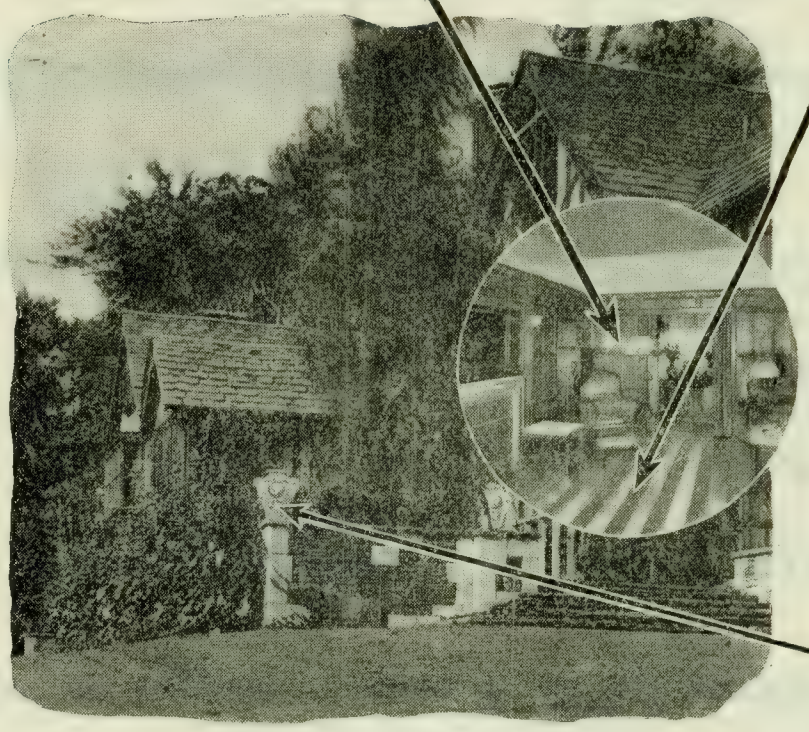
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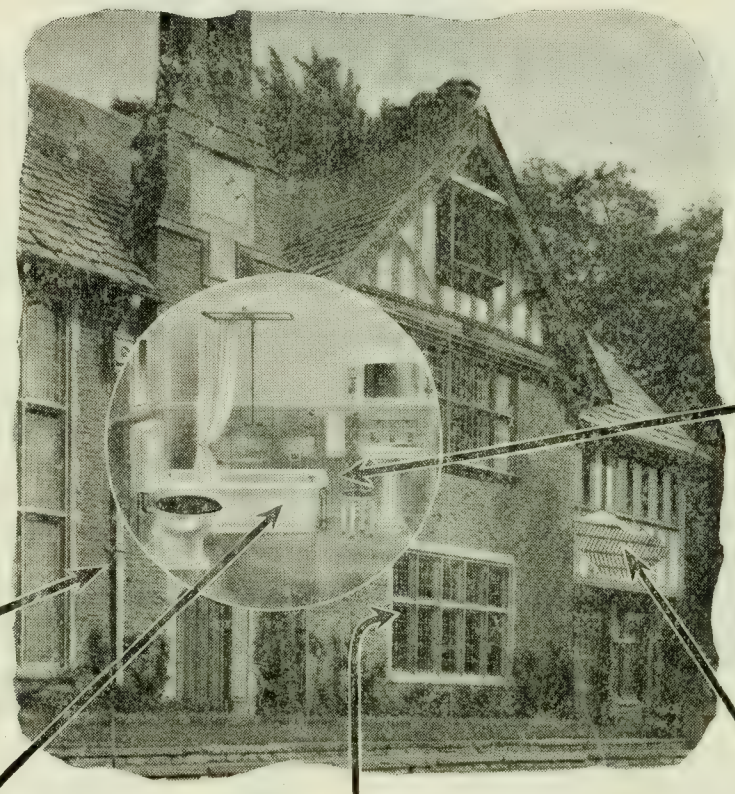
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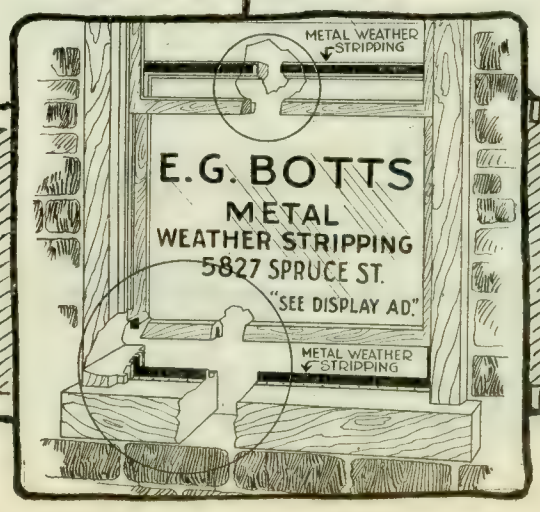
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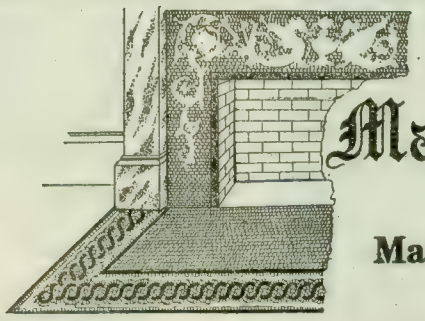
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Residence, Queen Lane Manor, Philadelphia. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, O. C. Schoenwork, 5220 Schuyler street, Philadelphia. Hollow tile, 2 stories, 30x40 feet, slate roof, pine floors, vapor heat, electric light, tile work. Architect taking bids due March 6th. H. E. Grau Co., 1707 Sansom street; W. J. Gruhler Co., 219 East High street, Germantown; I. A. Dunkelberger, 71 East Herman street; F. Elvidge & Son, 5522 Germantown avenue; J. Sims Wilson Co., 1125 Brown street, figuring.

Mill Building, Butler and Janney streets, Philadelphia. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owner, Belmont Packing & Rubber Co., 133 North Second street, Philadelphia. Brick, slow burning, 2 stories, 120x130 feet, slag roof, concrete floors, rolled steel sash, hollow metal skylights, stone foundations (heating and electric work reserved). Architect has received revised bids.

Contracts Awarded

Bakery and Store (alts. and add.), 25 North Tenth street, $20,000. Architect, private plans. Owner, Thomas Martindale, Tenth and Market streets, Philadelphia. Brick, alterations to second and third floors. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Furnace Building (add.), Aramingo avenue, south of Huntingdon street, $10,000. Architect, private plans. Owners, John T. Lewis & Bros. Co., Lafayette Building, Philadelphia. Brick and iron, 1 story, 34x121 feet. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Store and Dwelling (alts. and add.), 1717 Point Breeze avenue, Philadelphia, $5,000. Owner, Isadore Weiss, on premises. General alterations and addition. Contract awarded to Frank & Keyser, 1522 South Sixth street, Philadelphia.

Manufacturing Building, Hope and Palmer streets, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Standard Crown Co., on premises. Reinforced concrete, steel and brick, 1 story, 63x200 feet, slag roof, concrete floors, stone foundations, steam heating, electric lighting, iron work. Contract awarded to Alexander Chambley, Twenty-first and Summer streets, Philadelphia.

Factory and Factory Addition, Northeast Corner Wayne and Roberts avenues, Philadelphia, $57,000. Architect, private plans. Owners, Brown Instrument Co., on premises. Brick, 2 stories, 126x44 feet, and 2 story add., 37x72 feet, slag roof, steam heat, electric lighting. Contract awarded to R. C. Ballinger

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Office Building, Northeast Corner Seventeenth and Arch streets, $7,000. Architect, private plans. Owners, Bell Telephone Co., on premises. General alterations. Contract awarded to F. L. Hoover & Sons, 1023 Cherry streets, Philadelphia.

Store and Office (add. and alt.), 2654-56 Germantown avenue, Philadelphia, $3,000. Architect, private plans. Owner, S. Rosenblatt, 2649 Germantown avenue, Philadelphia. Brick, 1 story add., 21x14 feet, slag roof, electric lighting. Contract awarded to A. Rosenblatt, 2618 Germantown avenue, Philadelphia.

Store and Apartments (alts.), 5211 Girard avenue, Philadelphia, $2,700. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Jacob Zinkoff, on premises. Brick, 3 story add., 18x16 feet, slag roof, general alterations. Contract awarded to N. Statnekoo, 5321 Girard avenue, Philadelphia.

Store and Apartments (alts. and add.), Huntingdon street and Germantown avenue, Philadelphia, $19,500. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Otto Schlieske, on premises. Brick, 3 stories, 20x120½ feet, slag roof, pine floors, stone foundations, steam or hot water heat, electric light, tile work, concrete work. Contract awarded to Anton Tilli, 926 Lehigh avenue, Philadelphia.

Garage (alts.), 4119 Market street, Philadelphia, $4,600. Architect, private plans. Owner, Samuel Biron, 2617 West Girard avenue, Philadelphia. General alterations. Contract awarded to Louis Cohen, 417 Christian street, Philadelphia.

Store and Dwelling (add.), 1500 East Moyamensing avenue, Philadelphia, $2,000. Architect, private plans. Owner, Samuel Davis, on premises. Brick, 1 story, 18x21 feet, slag roof, electric lighting. Contract awarded to William Ariff, 352 Gladstone street, Philadelphia.

Store (alts.), 26 North Thirteenth street, Philadelphia, $3,400. Architect, private plans. Owner, United Cigar Co., Second and Market streets, Philadelphia. General alterations. Contract awarded to Warren Bros., 1113 Cherry street, Philadelphia.

Bank (alts.), 925 Chestnut street, Philadelphia, $140,000. Architect, private plans. Owner, Federal Reserve Bank, on premises. General alterations. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Shop (add.), 6225 State Road, $18.000. Architect, private plans. Owner, Tabor Mfg. Co., on premises. Brick, 1 story, 30x106 feet, slag roof, electric light, cement floors, dampproofing (heating reserved). Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Garage, 247 East Armat street, Philadelphia, $3,000. Architect, private plans. Owner, James Fraser, on premises. Brick, 1 story, 19x43 feet, slag roof, cement floor. Contract awarded to Walter Cloak & Bro. 2306 West Hazzard street.

Warehouse, Twenty-seventh and Lombard streets, Philadelphia. Architect, private plans. Owners, Sun Co., Finance Building, Philadelphia. Brick and concrete, 1 story, 74x104 feet, slag roof, cement floors, concrete foundations, metal lath, tile work, iron work (heating, electric work and plumbing reserved). Contract awarded to H. John Homan, 34 South Seventeenth street, Philadelphia.

Motion Picture Theatre, Fairmount avenue and Lex street, Philadelphia. Architects, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, William Hill, care of architects. Brick and terra cotta, 1 story, 40x93 feet, slag roof, cement floor, hollow tile, stone foundations, steam heat, electric lighting, tile work, roof ventilators, waterproofing, iron work. Contract awarded to Penn Const. Co., 902 Bulletin Building,

Residence (alts.), 1015 North Sixty-third street, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owner, J. Maguire, care of architect. General alterations. Contract awarded to A. P. Fraim, 319 Market street, Philadelphia.

Store Building (alts.), 1525 Chestnut street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, A. Pomerantz & Co., on premises. Carpentry, mill work, brass work, brick work, dampproofing, painting, glazing, hardware, metal lath. Contract awarded to H. M. Irwin, 1613 Ranstead street, Philadelphia.

Factory (alts.), Master street, West of Thirty-first street, Philadelphia, $15,000. Architect, private plans. Owners, Bergner & Engel Brewing Co., Thirty-second and Master streets, Philadelphia. General alterations. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Store and Office (alts.), 35 South Thirteenth street, Philadelphia, $9,000. Architect, private plans. Owners, P. & J. Hill, 1208 Chestnut street, Philadelphia. General alterations, flush bulks. Contract awarded to Pierce Henon Co., 3261 Bulletin Building.

Residences (2), South side Unruh street, West of Rising Sun avenue. Architect, private plans. Owner, Fred Manzel, 2839 North Marshall street, Philadelphia. Brick, 3 stories, 14½x47½ feet, 12x13 feet, slag roof, pine floors. Contract awarded to A. C. Waecker, 222 Rochelle avenue, Philadelphia.

Residence (alts.), 5005 Chestnut street, Philadelphia, $5,900. Architect, private plans. Owner, Joseph L. Lipschutz, 908 Walnut street, Philadelphia. General alterations. Contract awarded to A. C. Waecker, 222 Rochelle avenue, Philadelphia.

Store (add.), 915-17 North Eighteenth street, Philadelphia, $4,400. Architect, private plans. Owner, H. Trinnick Est., 1620 Poplar street, Philadelphia. Brick, 1 story, 16x25½ feet, slag roof, electric light. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Service Station (add.), Northwest Corner Fifteenth and Spring Garden streets, $4,000. Architect, private plans. Owner, H. Richard Arnold, 5948 North Camac street, Philadelphia. Brick, 1 story add., 19x32 feet, slag roof, cement floors. Contract awarded to W. H. Ashton, 5600 Master street, Philadelphia.

Pennsylvania Construction News

Y. M. C. A. Building, Third and Spring Garden streets, Easton, Pa., $300,000. Architects, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owner, Y. M. C. A. of Easton, care of Edw. Braisfield, secretary, Easton, Pa. Brick and stone, 130x110 feet. Preliminary plans in progress.

Residence, Narberth, Pa. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, Mrs. Rennie C. Barrie, Narberth, Pa. Stone, 2½ stories, 25x35 feet, shingle roof, hot water heat, electric lighting, hardwood and pine floors. Architects taking sub-bids.

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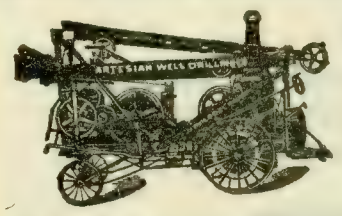
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avenue, Haverford, Pa., $12,000. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 22x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architects are taking sub-bids.

Hospital (surgical add.), Chester, Pa. Architects, Ballinger & Perrott, Seventeenth and Arch streets, Philadelphia. Owners, Chester Hospital, Chester, Pa. Brick, 3 stories, 37x209 feet, tile and marble work, steam heating, reinforced concrete floors. Architects taking bids, due March 15th. Ketcham & McQuade, 1029 Brown street; Barclay White & Co., 1713 Sansom street; F. L. Hoover & Son, 1023 Cherry street; William R. Dougherty, 1610 Sansom street, Philadelphia; R. H. Scroggins & Co., the Ward Building Co., Arthur Machi and William Provost, Jr., all of Chester, Pa., are figuring.

Store Building, Bridesburg, Pa., $8,000. Architect, Samuel Milner, 1117 Foulkrod street, Philadelphia. Owner, A. A. Gilfillan, 1828 Harrison street, Philadelphia. Brick, 2 stories, 21x65 feet, slag roof, pine floors, hot water heating, electric lighting, flush bulks. Architect will be ready for bids in a few days.

Residence, Swarthmore, Pa. Architects, Walter F. Price and William M. Price, 136 South Fourth street, Philadelphia. Owner, Warren M. Foote, 515 Elm avenue, Swarthmore, Pa. Hollow tile and stone, 2½ stories, 22x47 feet, pine floors, hollow tile, stone foundations, warm air heat, electric lighting, tile work. Architects taking bids due March 11th. Bowden Const. Co., 1713 Sansom street; C. Nelson Rocholl, 217 Northeast Boulevard, Philadelphia; J. W. Worrillow, Media, Pa.; J. Howard Roberts, Lansdowne, Pa.; J. D. Durnall, Swarthmore, Pa., are figuring.

Residences (2), Harper avenue, Drexel Hill, Pa., $24,000. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owners Brodbeck & Shoemacker, Drexel Hill, Pa. Frame and stucco, 2½ stories 26x47 feet, asphalt slate shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners taking sub-bids.

Residence, Ardmore, Pa. Architect, John Charles Norton, 29 West Lancaster avenue, Ardmore, Pa. Owner, Rudolph Lawser, Ardmore Pa. Frame and plaster, 2½ stories, 25x35 feet, shingle roof, hot water heat, electric lighting, mill work, brick work, pine floors and tile work. Plans completed. Ready for bids.

Twin Residences (2), Plan No. 683, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick and plaster, composition roof, 2 stories, 32x38 feet, pine floors, electric light, pipeless furnaces, cement work, tile work. Plans completed.

Twin Residences (2), Plan No. 684, Ardmore-Conshohocken, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick and plaster, 2 stories, 28x40 feet, composition roof, composition floors, stone foundations, tile work, hot water heat, combination lighting. Plans completed.

Residences (96), Plan No. 682, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick, 2 stories, 16x38 feet, slag roof, pipeless heaters, electric lighting, cement work. Plans completed. Architect is ready for sub-bids.

Residences (6), Stenton, Pa. Architects Druckenmiller & Williams, 1527 Chestnut street, Philadelphia. Owners, Mauran, Dolman & Co., Liberty Building, Philadelphia. Stone and stucco, 2 and 2½ stories, 23x42 feet, wing 15x20 feet, shingle or slate and slag roofs, hardwood floors, vapor or warm air heating, electric lighting. Architects will be ready for bids in a few days.

Store and Residence (alts.), Ardmore, Pa., $25,000. Architect, John Charles Norton, Ardmore, Pa. Owner, Max Dietish, Ardmore, Pa. New front, bulk windows, terrazzo floor, mill work, hot water heating, rear addition, containing 6 rooms and bath. Contract awarded to L. D. Spencer, Ardmore, Pa.

Office Building (removal and add.), Glenside, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, William T. B. Roberts & Sons, Glenside, Pa. Stone, 1 story add. to present building. Plans in progress.

Club Buildings, Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Aberfoyle Mfg. Co., Chester, Pa. Brick, hollow tile and stucco, 100x200 feet, swimming pool, shingle roof, steam heating, electric lighting. Architect taking bids due March 11th. John R. Wiggins, Otis Building, Philadelphia, is figuring.

Residence, Valley road, Ardmore, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, Frank H. Mahan, Ardmore, Pa. Stone, 2½ stories, 37x33 feet, wing 9x14 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Architects are taking sub-bids.

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Residence and Garage, Meriona and Sycamore avenue, Merion, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, James R. Scott, care of architects. Stone, 3 stories, 30x80 feet, 12x14 feet, slate roof, hardwood floors, stone foundations, vacuum heating, electric lighting, cement work. Owner is receiving sub-bids at architects' office.

Residence, Drexel Hill, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Charles K. Johnson, 2510 North Fifth street, Philadelphia. Stone, 3 stories, 40x40 feet, shingle roof, oak floors, hot water heating, electric lighting, tile work. Owner is ready for bids.

Residence, Cynwyd, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, Lewis H. Lipman, 705 Walnut street, Philadelphia. Hollow tile and stucco, 2½ stories, 38x20 feet, stone foundations, slate roof, oak and pine floors. Owner taking bids. Bowden Const. Co., 1713 Sansom street, figuring.

Residence and Garage, Elkins Park, Pa. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Herbert Refetto, care of architect. Stone, 2½ stories, 40x40 feet, garage, 1 story, 20x24 feet, slate roof, hardwood floors, stone foundations, hot water heat, electric light, tile work, marble work, cement work. Architect taking bids due March 6th. A. Zellfelder, 151 South Broad street; E. Allen Reeves, Abington, Pa.; W. John Stevens, Wyncote, Pa.; I. K. Davis Co., 6100 North Twentieth street, and Maurice Paul, 133 South Fifth street, are figuring.

Bungalows (2), Springfield, Pa. Architect, John Emlen Bullock, Middle City Building, Philadelphia. Owner, name withheld. Hollow tile, stucco, 1½ stories, 48x32 feet, stone foundations, shingle roof, hot air heat, electric light, oak and pine floors, hollow tile, tile work. Plans in progress. Architect will be ready for bids in 10 days.

Bank (alts.), Norristown, Pa. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owner, Montgomery Trust Co., Norristown, Pa. Interior changes in basement, including cork flooring, hollow tile partitions. Plans in progress.

Bank Building, Phoenixville, Pa. Architect, Philip Merz, Pennsylvania Building, Philadelphia. Owner, Farmers' & Mechanics' National Bank, Phoenixville, Pa. Indiana limestone. Plans in progress. Too early for details.

Residence (alts. and add.), Latham Park, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, William T. B. Roberts, Glenside, Pa. Stone, general alterations and additions. Plans in progress. Owner will take sub-bids March 10th.

Residence and Garage, Merion, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Herbert Taylor, president, Eastern Motors Corp., Broad and Wallace streets, Philadelphia. Hollow tile and stucco, 2½ stories, 28x52 feet, and 1½ stories, 20x20 feet, stone foundations, slate roof, hardwood and cement floors, hot water heat, electric light, tile work. Architect is taking sub-bids.

Residence (alts. from Stable), Lansdowne, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Charles Pennock, Lansdowne, Pa. Stucco, 2 stories, 12x24 feet, shingle roof, stone foundations, hot air heating, electric lighting, tile work. Architects taking bids due as soon as possible from William N. Thompson, 1529 Filbert street and Joseph E. Pennock, Lansdowne, Pa.

Store (alts.), Hamilton street, Allentown, Pa. Architect, D. Levy, 935 Hamilton street, Allentown, Pa. Owner, name withheld. Interior alterations, painting, hardwood floors, plate glass, marble and mill work. Plans in progress.

Theatre, Stores and Office (alts.), Allentown, Pa. Architect, D. Levy, Hamilton street, Allentown, Pa. Owner, Lyric Play House Co., care of architect. New front, 75 feet, tile and marble work, hollow metal sash, fire doors, roof ventilators. Plans in progress.

Residence (alts.), Hamilton street, Allentown, Pa. Architect, D. Levy, 935 Hamilton street, Allentown, Pa. Owner, J. Phillips, on premises. Complete rebuilding, slag roof, hardwood floors, vacuum steam heat, electric light, tile work, plumbing. Plans in progress.

House and Garage, Bethlehem, Pa. Architect, E. B. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, Barney Flammer, Bethlehem, Pa. Brick, 2½ stories, 38x40 feet, stone foundations, tile and slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Bank, Phillipsburg, N. J. Architect, William Michler, Drake Building, Easton, Pa. Owner, Phillipsburg Trust Co., Mr. Nixon, president, Phillipsburg, N. J. Brick and tile, 1 story, 40x60 feet, concrete foundations, asbestos shingle roof, tile and cork floors, vapor

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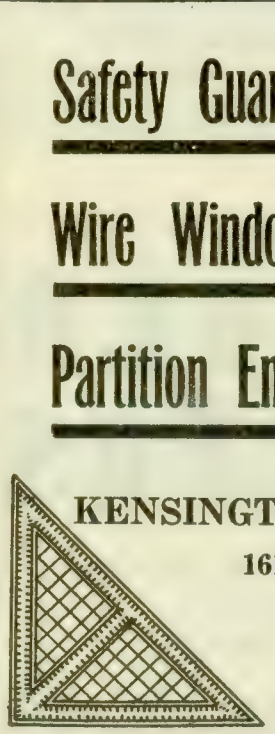
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heat, electric light, tile and marble work, vaults, rolled steel skylights, bank fixtures, roof ventilators, metal window guards. Architect taking bids due March 15th. Bechtel & Bechtel, Easton, Pa.; Butz & Clader, Allentown, Pa., and Mr. Rymer, Phillipsburg, N. J., are figuring.

Silk Mill, Allentown, Pa. Architects, Ruhe & Lange, Sixth street, Allentown, Pa. Owners, High Grade Silk Co., care of Mr. Pasqueriella, Allentown, Pa. Brick, 2 stories, 50x120 feet, concrete foundations, slag roof, wood floors, electric lighting, hollow metal sash, fire doors. Owner has received bids.

Theatre and Apartment, Northampton, Pa., $40,000. Architect, E. R. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, H. A. Miller, Northampton, Pa. Brick, 2 stories, 60x142 feet, concrete foundations, slag roof, wood floors, steam heat, electric light, tile and marble work, fire doors, roof ventilators. Owner is taking sub-bids.

Stores (2) and Apartment, Northampton, Pa. Architect, E. R. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, George Steger, Northampton, Pa. Brick, 2 stories, 40x75 feet, concrete foundations, slag roof, pine floors, steam heat, electric light, marble and terrazzo work. Owner will take sub-bids.

House (add.), Lee Park, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Hanover Township, care of F. C. Rowe, secretary, 731 Hazel street, Ashley, Pa. Work contemplated.

School and Assembly Room, Glen Lyon, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Newport Township School District, care of J. Morris, president, Alden, Pa. Brick, 2 stories and basement, 108x90 feet, stone foundations, slag roof, pine floors, electric light, tile work, metal lath. Plans in progress.

Factory (alts.), Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Evangeline Chocolate Co., care of architect. General interior alterations, change to school. Plans in progress.

Residence (alt.), Hazleton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Philadelphia. Owner, J. B. Warriner, Hazelton, Pa. Steam heat, electric light, oak floors, porches, general interior alterations. Plans in progress.

Silk Mill (add.), Kingston, Pa., $50,000. Architect, G. S. Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owner Crane Bros., Kingston, Pa. Slow burning construction, 2 stories, 50x120 feet, concrete foundations, slag roof, maple floors, electric light, rolled steel sash, hollow metal skylights, fire doors, roof ventilators, fireproof stairs. Plans in progress. Architect will be ready for bids in two weeks.

Residence, Larksville, Pa. Architect, A. I. Prandzik, Scranton Life Building, Scranton, Pa. Owner, St. John's Polish Roman Catholic Church, Rev. P. Kopicki, Larksville, Pa. Frame and stucco, 2½ stories. Work contemplated.

School, Larksville, Pa. Architect, A. I. Praindzik, Scranton Life Building, Scranton, Pa. Owner, St. John's Polish Roman Catholic Church, Rev. P. Kopicki, on premises. Brick, 2 stories. Work contemplated.

Factory, Moosic, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, name withheld. Frame and stucco, 2 stories, 50x80 feet, asbestos shingle roof, pine floors, electric lighting. Plans in progress.

Factory, Moosic and Front streets, Scranton, Pa., $55,000. Architect, D. H. Morgan, Connell Building, Scranton, Pa. Owner, United Ribbon Co., 254 Fourth avenue, New York. Brick, 2 stories, 180x150 feet, stone foundations, slag roof, pine floors, steam heat, electric light, metal lath, hollow metal sash, fire doors. Plans in progress.

Residence, Taylor, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Mr. Sasofsky, care of Sasofsky & Taub, Scranton, Pa. Frame and stucco, 2½ stories, 30x32 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

High School, Main street, Taylor, Pa., $250,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Taylor School District, care of Mr. Griffiths, Taylor, Pa. Brick, 2 stories and basement, 150x116 feet, stone foundations, Barrett specification roof, hardwood floors, steam heat, electric light, tile work, hollow metal skylights, metal lath, roof ventilators. Plans in progress.

Silk Mills (add.), Scranton, Pa. Architect, E. H. Forey, Coal Exchange Building, Scranton, Pa. Owner, Black Diamond Silk Co., Scranton, Pa. Brick, mill construction, 2 stories 50x65 feet, slag roof, pine and maple floors, electric light, hollow metal sash and skylights, fire doors, roof ventilators, waterproofing. Plans in progress.

Business College (add.), Jefferson and Linden streets, Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Scranton-Lackawanna Business College, care of J. H. Selley, on premises. Brick and stone, 4 stories, 40x81 feet, stone foundations, slag roof, maple floors, steam heat, electric light, metal lath, hollow metal sash, fire doors, roof ventilators. Plans in progress.

Store Building and Loft, Scranton, Pa. Architect, E. H. Davis, Union Bank Building, Scranton, Pa. Owner, name withheld. Brick, 5 stories, 20x100 feet, slag roof, hardwood floors, electric light, tile work. Plans in progress.

School, Clav street, Scranton, Pa. Architect, E. H. Davis, Union Bank Building, Scranton, Pa. Owner, Scranton Co. Day School, care of architect. Frame and stucco, 2 stories, 100x100 feet, hardwood floors, electric light, rolled steel skylights. Plans in progress.

Factory, Taylor, Pa. Architect, E. H. Davis and M. D. Lewis, Union Bank Building, Scranton, Pa. Owner, name withheld. Frame and stucco, 1 story, 65x120 feet, asbestos shingle roof, pine floors, electric lighting. Architects will be ready for bids March 1st.

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Church, Third and Nesbitt streets, Larksville, Pa., $60,000. Architect, A. I. Prandzik, Scranton Life Building, Scranton Pa. Owner, St. John's Polish Roman Catholic Church, Rev. P. Kipicki, premises. Frame and stucco, 1 story and basement, 50x110 feet, asbestos shingle roof, wood floors. Architect ready for bids March 8th.

Store Building, Adams street, Scranton, Pa. Architect, F. Nelson, Connell Building, Scranton, Pa. Owner, C. B. Scott 324 Monroe street, Scranton, Pa. Brick, semi-fireproof, 3 stories, 60x80 feet, concrete foundations, slag roof, pine floors, steam heat, electric light, rolled sash, roof ventilators. Architect ready for bids in two weeks.

Store and Apartment, Wyoming street, Hazelton, Pa., $15,000. Architect, L. Reisman, Miller Building, Scranton, Pa. Owner, Samuel Rosen, Hazelton, Pa. Brick, 3 stories, 130x62 feet, slag roof, hardwood floors, electric light, tile work. Owners taking general bids.

High School, Sixth street, Harrisburg, Pa., $1,000,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, School Board of Harrisburg, D. D. Hammelbaugh, 121 Chestnut street, Harrisburg, Pa. Too early for details.

School (add. and alt.), Camp Hill, Pa. Architects, Kast & Kepler, Commonwealth Building, Harrisburg, Pa. Owners, Camp Hill School District, U. G. Fry, Camp Hill, Pa. Brick, 2 stories, 25x75 feet, slate roof, pine floors, electric lighting, interior alterations. Plans in progress.

Trades and Service Building, Quincy, Pa. Architects, Kast & Kepler, Commonwealth Building, Harrisburg, Pa. Owners, Quincy United Brethren Orphan Home, care of H. J. Kitzmoyer, Quincy, Pa. Brick, 2 stories and basement, 125x75 feet, slate roof, concrete floors, steam heating, electric lighting. Plans in progress.

Office Building, Market street, Harrisburg, Pa. Architects, Markley & Starr, Spooner Building, Harrisburg, Pa. Owners, Yoffer Bros., Senate Hotel, Harrisburg, Pa. Brick, stone, steel, 8 stories, 45x54 feet, stone foundations, composition roof, reinforced concrete and hardwood floors, steam heating, electric lighting, tile and marble work, hollow metal skylights, elevators, roof ventilators. Plans in progress.

Store Rooms (5), between Eleventh and Twelfth streets, on Market street, Harrisburg. Architect, G. H. Grove, 213 Walnut, street, Harrisburg, Pa. Owner, Nathan Cohen, Fourth street, Harrisburg, Pa. Brick, 1 story, 70x80 feet, slag roof, hardwood floors, electric lighting. Plans in progress.

Bungalow, Hummelstown, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Romanus Grove, Hummelstown, Pa. Frame, 1 story, 25x30 feet, asbestos shingle roof, hardwood floors, electric lighting. Plans in progress.

Bungalow (alts. and add.), Hummelstown, Pa., $3,500. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, R. J. Earnest, Hummelstown, Pa. Frame, 2 stories, 14x12 feet, interior alterations, hardwood floors. Plans in progress.

Hotel (alt. and add.), Dauphin, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Walter Folger, on premises. Brick, 1 and 2 stories, 40x56 feet and 22x65 feet, stone foundations, shingle roof, hardwood floors, electric lighting, interior alterations. Plans in progress.

Bungalow, New Cumberland, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Mrs. C. W. Seal, Eleventh street, New Cumberland, Pa. Brick, 2 stories, 28x29 feet, asbestos shingle roof, hardwood floors, pipeless heater, electric lighting. Plans in progress.

High School, Swissvall, Pa., $400,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Swissvall School Board, care of C. C. Kelso, Swissvall, Pa. Brick, reinforced steel, 3 stories, 148x180 feet, concrete foundations, slag roof, maple floors, hot air heating, electric lighting, tile work, rolled steel sash, elevators, roof ventilators, iron stairs. Owners taking bids, due March 11th. Hadden Construction Co., Braddock, Pa.; C. H. Kerr, 2565 Fifth avenue; A. & S. Wilson Co., 541 Third avenue, and David Riffle, Keenan Building, all of Pittsburgh, Pa., are figuring.

Store and Garage, Fourteenth and Market streets, Harrisburg, Pa., $80,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, W. F. Schell, 1307 Market street, Harrisburg, Pa. Brick, 4 stories, slag roof, hardwood and concrete floors hot water heating, electric lighting, elevators. Architect has received bids.

Garage, Wyoming avenue, Scranton, Pa., $45,000. Architect, Edw. Langley, Scranton Life Building, Scranton, Pa. Owner, O. D. DeWitt, 730 Wyoming avenue, Scranton, Pa. Brick, fireproof, 2 stories and basement, 167x90 feet, slag roof, concrete floors, electric lighting. Architect taking bids, due March 3rd. Breig Bros., Scranton Real Estate Trust Building; Richardson Construction Co., Connell Building; Henry Beilman & Son, 220 Ash street; Hagen Lumber Co., Hickory and Mattes streets; Ludwig Stipp, Union Bank Building; E. A. Fuller, 1616 Dickson street; E. S. Williams, Coal Exchange Building, and S. Seitz & Sons, all of Scranton, Pa., are figuring.

Factory Building, Collingdale, Pa. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Jobson Chocolate Co., 3833 Lancaster avenue, Philadelphia. Brick and stone, 1 story. Plans in progress. Will be ready for bids in about two weeks.

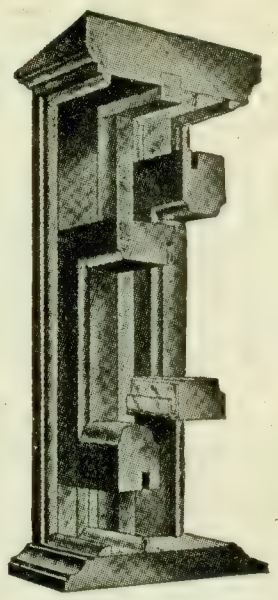
Residence (rear add.), Devon, Pa. Architect, Wesley Lesher Blithe, 608 Chestnut st., Philadelphia. Owner, Geo. R. Lancaster, 1303 North Broad street, Philadelphia. Stone and rough cast, second story rear addition, 30x50 feet. Plans in progress.

Bridge No. 134, over Little Schuylkill River on road from Tamaqua to Hazleton, Tamaqua, Schuylkill County, Pa. Engineers, private plans. Owners, County Commissioners, care of John E. Schlottman, County Controller, Pottsville, Pa. Steel and concrete. Owners taking bids, due April 2nd at 11.30 A. M. Plans and specifications may be secured from County Commissioners' Office upon deposit of $3.00.

Bridge, Hill to Hill, Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Bridge Committee, care of A. Geo. Shoffner, Bethlehem, Pa. Structural steel and concrete, 6,000 feet long. Only bid submitted by T. Larry Eyre, Commercial Trust Building, Philadelphia, $4,871,237. (Appropriation, $2,300,000.)

Pennsylvania Contracts Awarded

Bank (alts. and add.), Chester, Pa. Architect, Ben. R. Stevens, 1737 Filbert street, Philadelphia. Owners, First National Bank,



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Chester, Pa. Brick, stone and steel, 1 story and balcony, 15x26 feet, slag roof, cement and cork floors, hollow tile, terra cotta, metal lath, stone foundations. Contract awarded to H. E. Baton, 1713 Sansom street.

Residence, Ardmore, Pa., $14,800. Architect, John Charles Norton, Ardmore, Pa. Owner, Wm. F. McDankel, Ardmore, Pa. Brick and stucco, 2½ stories, 29½x39½ feet, shingle roof, combination lighting, hot water heating, hardwood and petronite floors, combination lighting, cement work, stone work. Contract awarded to Doyle Bros., Bryn Mawr, Pa.

Residence, Wynnewood, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner's name withheld. Hollow tile and plaster, 2½ stories, 70x22 feet, wing 20x24 feet, shingle roof, oak and pine floors, hollow tile, stone foundations, hot water heat, electric lighting, tile work. Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Residence (alts.), Ogontz, Pa. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Harry H. Snellenberg, Ogontz, Pa. General interior and exterior alterations. Contract awarded to John E. Spitz, 243 North Eleventh street, Philadelphia.

Silk Mill, Meyerstown, Pa. Architects, Ruhe & Lang, 12 North Sixth street, Allentown, Pa. Owners, Meyerstown Silk Corp., care of Mr. Frederick, Emaus, Pa. Brick, 1 story, 200x150 feet, slag roof, wood floors, vacuum heat, electric light, hollow metal sash and skylights, elevators, roof ventilators. Contract awarded to Mr. Loose, Meyerstown, Pa.

House (alts.), Stroudsburg, Pa. Architect, Wm. Michler, Drake Building, Easton, Pa. Owner, Dr. W. R. Levering, Stroudsburg, Pa. General interior and exterior alterations, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded to Wm. Palmer, Stroudsburg, Pa.

Factory (add.), Elm street, Kingston, Pa., $50,000. Architect, Geo. S. Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Crane Bros., Inc., 416 Elm street, Kingston, Pa. Brick, 2 stories, 50x120 feet, concrete foundations, slag roof, maple floors, electric lighting. Contract awarded to W. H. Sheppard Construction Co., Wilkes-Barre, Pa.

Double House (alts.), to Apartment, Wilkes-Barre, Pa. Architect, T. H. Atherton, Coal Exchange Building, Wilkes-Barre, Pa. Owner's name withheld. Brick, 3 stories, hardwood floors, interior work, tile and marble work, plumbing and plastering. Contract awarded to E. T. Long, Wilkes-Barre, Pa.

House (alts.), Hazelton, Pa. Architect, Geo. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, The Hub Clothing Co., Hazelton, Pa. Plate glass, tile and marble work. Contract awarded to Samuel Drasher, Hazelton, Pa.

Store Building, Wilkes-Barre, Pa. Architect, Geo. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Max Peils, South Pennsylvania avenue, Wilkes-Barre, Pa. Brick, 3 stories, 28x110 feet, concrete foundations, slag roof, wood floors, steam heating, plate glass, electric elevator. Contract awarded to M. Hildebrand, Wilkes-Barre, Pa.

Dormitory Building, Clarks Summit, Pa., $50,000. Architect, Edw. Langley, Scranton Life Building, Scranton, Pa. Owners, Scranton Poor District, care of Williard Matthews, president, Connell avenue, Scranton, Pa. Bituminous stone and reinforced concrete, 2 stories, 64x75 feet, slag roof, reinforced concrete and marblelite floors, electric lighting, tile and marble work, roof ventilators. Contract awarded to Breig Bros., Scranton, Pa.

New Jersey Construction News

Hotel, Boardwalk, Iowa and Belmont avenues, Atlantic City, N. J. Architects, Warren & Wetmore, 16 East Forty-seventh street, New York City. Owners, Ritz-Carlton Hotel and Restaurant Co., Atlantic City, N. J. Brick, steel, stone and terra cotta, 16 stories, 291x49 feet, 65x36 feet, slag and tile roof, cement, pine and oak floors, metal lath, elevators, safety treads, waterproofing, dampproofing, concrete foundations, steam heat, electric light, tile and marble work, hollow metal sash, rolled steel skylights, steel doors, iron stairs, iron work. Architects taking bids, due March 3rd. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Residence and Garage, Cape May, N. J. Architect, Wesley Lesher Blithe, 608 Chestnut street, Philadelphia. Owner, Jos. Horton, 328 Chestnut street, Philadelphia. Hollow tile and stucco, 2½ stories, 30x65 feet, slate roof, stone foundations, hardwood floors, electric lighting, cement work. Plans in progress.

School, Perth Amboy, N. J. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Stephen's R. C. Church, 500 State street, Perth Amboy, N. J. Stone. Preliminary plans in progress. Too early for details.

School, Haddon Heights, N. J. Architect, Henry C. Pelton, 35 West Thirty-ninth street, New York City. Owner, St. Rose's R. C. Church, care of Rev. A. Quinlan, Haddon Heights, N. J. Brick, 2 stories, stone foundation, slag roof, pine floors, steam heat, electric light. Plans completed.

Factory, Trenton, N. J. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Bros., Third and Spruce streets, Philadelphia. Brick, stone, mill construction, 2 stories and basement, 50x100 feet, stone foundations, slag roof, pine floors, steam heat, electric light, elevators, fire doors. Plans in progress. Architect will take general bids in ten days.

School, Vineland, N. J. Architects, Berry & Cummiskey, Real Estate Trust Building, Philadelphia. Owners, Church of the Sacred Heart, Vineland, N. J., care of Rev. J. A. Bulfin. Stone and brick, 2½ stories, 120x60 feet, stone foundations, slate roof, maple and cement floors (plumbing, heating and electric work reserved). Architects taking bids, due March 3rd. Standard Construction Co., 1713 Sansom street; Wm. R. Dougherty, 1610 Sansom street; M. Melody & Son, 1322 Race street; T. J. & J. R. Whelan, 1011 Chestnut street, Philadelphia, and James D. Pasquale, Vineland, N. J., are figuring.

Nurses' Home and Dining Hall, Sixth and Stevens streets, Camden, N. J. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owners, Cooper Hospital, Camden, N. J. Brick and reinforced concrete, 3 stories, 42x50 feet and 40x48 feet, concrete foundations, cement floors, steam heat, electric light, tile work. Plans in progress.

Church, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Shiloh Baptist Church, Bordentown, N. J. Concrete and brick, 1 story and basement, 25x40 feet, slate roof, pine floors, hot air heat, electric light. Plans in progress.

Factory (add.), Fair street, Trenton, N. J. Architect, J. O. Hunt, 114 Montgomery avenue, Trenton, N. J. Owner, J. E. Thropp, Greenwood avenue, Trenton, N. J. Brick, 1 story, 23x20 feet, slag roof, wood floors, extensive plumbing. Plans ready for bids.

Garage and Show Room, South Warren st., Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, F. G. Fisher, Montgomery street, Trenton, N. J. Brick, 1 story, 75x41 feet, concrete foundations, slag roof, steam heat, electric light. Architect taking bids, due March 8th.

Factory (add.), Southard street, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owners, National Porcelain Co., care of Bayard Dunker, on premises. Brick, 2 stories and basement, 51x72 feet, concrete foundations, slag roof, plank floors, electric light, rolled steel sash. Architect taking bids, due March 8th.

School, Stephens, N. J. Architect, W. Kleman, First National Bank Building, Trenton, N. J. Owners, Board of Education, Burlington Township, N. J. Brick, 1 story, 63x39 feet, slate roof, pine floors, steam heat, electric light. Owners have received bids.

Garage, Lawrence Road, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, J. E. Reynolds, Mulberry street, Trenton, N. J. Brick, concrete and steel, 1 story, 46x111 feet, concrete foundations, slag roof, concrete floors, steam heating, electric lighting, gasoline storage system. Owner is taking subbids.

Stores, Boardwalk and Indiana avenue, Atlantic City, N. J. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, Estate of Frederick Hemsley, Atlantic City, N. J. Brick, stucco and steel, 1 story, 80x100 feet, slag and paradox roof, maple floors, hollow tile, waterproofing, stone foundations, tile and marble work, iron work (heating and electric work reserved). Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

Miscellaneous Construction News

Service Building, Twelfth and French sts., Wilmington, Del. Architects, Greisler-Abramson Co., Lafayette Building, Philadelphia. Owners, Automobile Supply Co., 905 Shipley street, Wilmington, Del. Brick and steel, 3 stories, 40x70 feet, slag roof, pine and woodoleum floors, steam heat, electric light, rolled steel sash, hollow metal sash, flush bulks. Architects taking bids, due March 11th. F. B. Davis, 240 North Sixteenth street; W. W. Anstine & Co., 1218 Filbert street; Hogg Construction Co., Denkla Building; Ketcham & McQuade, 1029 Brown street, and Wm. R. Dougherty, 1610 Sansom street, are figuring.

Manufacturing Building, Astoria, Long Island, N. Y. Architects, Lockwood Greene Co., 101 Park avenue, New York. Owner, H. R. Mallinson, 136 Madison avenue, New York. Concrete, brick, steel, 3 stories, 184x202 feet, stone foundations, slag roof, concrete and maple floors, hollow tile, metal lath, rolled steel sash, fire doors, roof ventilators, iron stairs and work. Architects have received bids.

Girls' Hotel, Roanoke, Va. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Viscose Co., care of R. C. Neren, Roanoke, Va. Reinforced concrete, brick, terra cotta and steel, 3 stories, 101x118 feet, slate roof, composition and maple floors; metal lath, metal weatherstrip, waterproofing, iron work, iron stairs, fire doors, rolled steel sash, hollow metal skylights, marble, concrete work (heating and electric lighting reserved). Contract awarded to B. J. Phipps, Roanoke, Va.

Proposals

SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 27, 1920.—Sealed Proposals will be received at this office until 3 P. M. March 26, 1920, and then opened, for changes in approaches and lobby vestibule doors at the U. S. Post Office and Court House, Harrisburg, Pa., in accordance with the specification and drawing Nos. 1D and 3D, copies of which may be had at this office or at the office of the custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 167.)

speculative builder who, in this time of serious distress, is out for all he can get and will take every advantage he can. These are profiteers and no condemnation of them is too severe. They are, however, the exception and when labor goes in for the policy of "getting while the getting is good" justifying this form of social and industrial blackmail by the careless assertion that the building interests are "getting theirs" they do not make a fair statement of the case but put up the exception as the rule.

It is not enough for the construction industry in Chicago to understand the iniquities of this latest move on the wage question by the organized labor forces. It has come to the place where action of this kind is menacing the health and material welfare of the entire city; it is very much a matter of public welfare and the public should be given the facts.

Contractors themselves sometimes contribute to just such conditions by granting any demands made upon them in order to finish a job. The *Record and Guide* (New York) gives a report on the speech of C. G. Norman of New York City, before the New York State Association of Builders in Syracuse. "Mr. Norman pointed out," says the *Record and Guide,* that a very large part of the labor unrest in the Metropolitan district was due to independent builders not affiliated with the organization and the speculators who were willing to pay almost any advance in order to get their structures completed and then pass on the additional cost to the purchaser of the building. He cited one enlightening example of a speculative builder who started his work paying bricklayers at the established rate of $8.50 per day. After the walls were up to the second story the bricklayers struck and demanded $9 a day, which they obtained. Somewhat later they again walked out with the demand for $10 a day, and the builder, in order to carry on his work, had to pay it. Just before this building was up to the roof tier the bricklayers again demanded an increase, this time for $12 a day, and it was necessary to pay this outrageous wage in order that the work might be finished and the owner save his equity in the project. This was not a hypothetical case but one which was confirmed by the viisting officials of the International union."

Such conditions are widespread over the country and are affecting all branches of industry. Every employer of labor *must* feel his responsibility in the matter. It rests on each individual employer to get into closer touch and harmony with his men; and through a closer relationship and sympathy with Labor, to instill into his men the right ideals of efficiency, production, thrift—whether personal or industrial, and a full realization of our obligations to our fellowmen; all of which can be summed up the in the word —Americanism.

Roosevelt has said:

"The wage worker should not only *receive* fair treatment, but should *give* fair treatment. In order that prosperity may be passed around, it necessary that the prosperity exist.

In order that labor shall receive its fair share in the division of reward, it is necessary that there be a reward to divide.

We must always keep in mind that to reduce the amount of production serves merely to reduce the amount that is to be divided.

No man and no group of men may so exercise their rights as to deprive the nation of the things which are *necessary* and *vital* to the *Common Life.*

Every encouragement should be given the business man, the employer, to make his business prosperous, and therefore to earn money for himself; and in like fashion every encouragement should be given the efficient worker."

"Preachers of violence are themselves the worst foes of the honest laboring man."

* * *

HOUSING PLANS IN PATERSON, N. J.

To spend approximately $1,500,000 in building homes in order to relieve congested conditions is the decision of the committee appointed by the Mayor of Paterson, N. J. Two hundred new homes will be erected and Paterson will become a municipal landlord as soon as work can be started. The houses will be of frame, say advices from that city, of the standard two-family type, with five rooms and bath on each floor and two rooms in the attic. They will be rented at a fair figure, the rental charge to apply on the purchase price. The houses will cost about $6,000 each.

VARIATIONS IN LUMBER MEASUREMENTS.

Of the lumber exported by a company in Northern Sweden, 69 per cent. is cut to English feet, according to Trade Commissioner Axel H. Oxholm, as quoted by the Daily Trade Reports of the Bureau of Foreign and Domestic Commerce; 7 per cent. is cut to Danish feet (1 Danish foot is .9711 English foot); 8 per cent. to "metric feet" (1 metric foot is 1.0936 English feet); 7 per cent. to Spanish feet (1 Spanish foot is 1.0783 English feet); 4 per cent. to Dutch foot is 1.0783 English feet); 4 per cent. to German feet (1 German foot is 1.0639 English feet) and 1 per cent. to decimeters (1 Decimeter is 3 15-16 English inches). A standard unit of measurement for the principal countries of the world would seem to be an urgent need if export trade is to expand as present conditions indicate.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

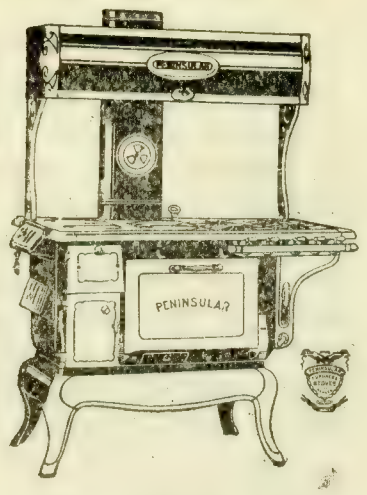
People who want to buy things do not catch the seller, chloroform him and cram the orders into his pocket.

Advertising is the proper education of the public as to where the thing can be found, and therefore it is a necessity.

We are parts and particles of each other, but a little of the kindly glue of human brotherhood is needed to fasten us together. The policeman who keeps the crossing clear, and at the same time informs us as to the location of the post office and the First National Bank, no doubt is, in one sense, an economic waste. On the other hand, he is an economic necessity. He is a necessary middleman.

He relieves the congestion of traffic and granting the hypothesis that he does not misdirect us as to the location of the post office, he speeds us on our way.

If your sales-talk is keyed to interest men who build it should occupy space every week in the "Guide," the only building magazine this side of Manhattan Island.



A Few of the Reasons

why you should install the **Peninsular Combination Range:**

A Range that burns either Gas, Coal or Wood without any changing or removing of parts—separate or both at the same time—whose oven is always ready for instant use.

A Range that takes up no more space than an ordinary kitchen range, bakes and broils perfectly under all conditions and gives a lifetime of such service.

A Range that makes the kitchen cool in Summer, warm in Winter—beautiful in design, substantial, and easy to keep clean. Secure our prices.

KLEIN STOVE CO.

Front St. & Fairmount Ave.

Bell Phone, Market 3879 **PHILADELPHIA, PA.**

CARTER CONCRETE

The Kind That Lasts

Carter Concrete **PAVEMENTS, FLOORS, CONSTRUCTION—BUILT BY SPECIALISTS SINCE 1888—BUILT TO PREVENT CRACKING, CRUMBLING and DECAY—BUILT TO LAST.**

ORIGINAL COST OF *Carter Concrete* LOW—UPKEEP COST NEGLIGIBLE.

SPECIALISTS IN CONCRETE ROADWAYS

One of our Engineers will help you in Concrete Problems and gladly give you an Estimate.

CARTER PAVING COMPANY

639-41 N. 18th St., Philadelphia, Pa.

Brownstone Bricks

Reading Sidings.

These are high grade pressed bricks, manufactured of crushed stone and hydrated lime. Greater crushing strength and lower absorption than burned clay. Uniform in shape and size. No soft ones. They are beautiful, economical and everlasting.

Red, Gray & Buff Face Bricks

A complete range of colors. Manufactured of vitrifying shale and fire clay. Our prices defy competition.

Straight Hard, Stretcher and Salmon Bricks

All Shale Bricks in carload lots, delivered on job at competitive prices. We are shipping 200,000 bricks daily to 28 building operations.

Vitrified Paving Bricks

Standard specification pavers at lowest market price.

Sole Representative of Mack & Pennsylvania Clay Works

JOHN S. E. PARDEE & CO.

514-32-33-34 Heed Bldg.

Philadelphia

PHONES—Locust 7525
Locust 4478

BARGAINS

While they last

Concrete Carts 6 cu. ft.	each	$18.00
16 x 16 Salamanders with ash pan per dozen		75.00
Quantity of used Salamanders	each	4.00

5 ton Stiff Leg Derrick, 60 ft. Boom, 35 ft. Mast complete with blocks, cables, etc.

Small Stiff Leg Derrick 18 ft. Boom with crab complete

12 ft. Breast Derrick complete

Service Equipment Co. **Bourse Bldg.** Machinery Floor

Bell Phone, Lombard 490 **PHILADELPHIA, PA.**

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTESIAN WELL PUMPS.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BELTING
Bond, Chas., Co.....617 Arch St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
National Blue Print Co. .....38 S. 6th St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
National Blue Print Co. .....38 S. 6th St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BRICK (Tapestry, Face, Common, Paving).
Ketcham, O. W. .....Builders' Exchange, Phila.
Pardee, John S. E., & Co.....Heed Bldg., Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Pomeroy Const. Co. .....1609 Ranstead St., Phila.

BUILDERS' SUPPLIES.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.

CEMENT.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Lehigh Portland Cement Co....Finance Bldg., Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.

CEMENT WORK.
Carter Paving Co.....639 N. 18th St., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Barrett Co., The.....New York and Philadelphia
Petronite Mfg. Co. .....531 N. 9th St., Phila.
Phila. Mineral Flooring Co..5632 Summer St., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Carter Paving Co. .....639 N. 18th St., Phila.

CONTRACTORS' EQUIPMENT.
Service Equipment Co. .....Bourse Bldg., Phila.

DAMPPROOFING.
Barrett Co., The.....New York and Philadelphia
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Western Waterproofing Co.Stephen Girard Bld., Phila.

DRAUGHTSMAN (Public)
Durham Bros. .....26 S. 15th St., Phila.

DRAWING MATERIALS.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

ELECTRICAL APPLIANCES.
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.

ELECTRICAL CONSTRUCTION.
Baird-Osterhout Const. Co..1620 Chancellor St., Phila.
Buchanan & Co., J. F.....1719 Chestnut St., Phila.

ELEVATORS.
A. B. See Electric Elevator Co.,
Colonial Trust Bldg., Phila.

ENGINEERS' SUPPLIES.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

FACE AND CUT STONE.
Holmesburg Granite Co..Commercial Tr. Bldg., Phila.

FENCES.
Anchor Post Iron Works,
Real Estate Trust Bldg., Phila.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.

FIREPROOFING.
General Fireproofing Co....512 Bulletin Bldg., Phila.
McCalla Co., The Harold.....531 N. 4th St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.
Truscon Steel Co. .....Commonwealth Bldg., Phila.

FLOOR PLATES.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.
Morris Wheeler & Co....30th and Locust Sts., Phila.

FLUE LINING.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Klein Stove Co. .....700 N. Front St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARDEN FURNITURE.
Voight Co. .....1743 N. 12th St., Phila.

GARAGE HEATERS.
Reeves Stove and Foundry Co..38 S. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GAS WATER HEATERS.
Apeldorn & Beatty Co.....155 N. 9th St., Phila.
Davis, Garfield W. .....34 S. 7th St., Phila.

GRANITE.
Holmesburg Granite Co.Commercial Tr. Bldg., Phila.

HARDWOOD FLOORS.
Heaton & Wood.....1802 Chestnut St., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co....927 N. 9th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Ketcham, O. W. .....Builders' Exchange, Phila.

INSURANCE.
Beidler & Bookmeyer.....424 Walnut St., Phila.
Stokes, Packard, Haughton & Smith,
434 Walnut St., Phila.
Wagner, Taylor, Edson Co., Inc.422 Walnut St., Phil.
Insurance Co. of North America,
3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Lederle, Robt. B. .....Witherspoon Bldg., Phila.
McCalla Co., The Harold.....531 N. 4th St., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Morris Wheeler & Co....30th and Locust Sts., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LEADED GLASS.
West Phila. Art Glass Works..4218 Market St., Phila.

LEVELS.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

LIGHT IRON CONSTRUCTION.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Lederle, Robt. B.....Witherspoon Bldg., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.

LUMBER.
Irwin, James M., & Co.....973 Beach St., Phila.
Janney Lumber Co.....1147 Beach St., Phila.
Lloyd Co., Wm.....29th and Ridge Ave., Phila.
Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

MAP AND POSTER MOUNTING.
National Blue Print Co. .....38 S. 6th St., Phila.

MARBLE MOSAIC.
Belfi Bros. & Co.....1923 Market St., Phila.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

METAL LATH.
Audubon Wire Cloth Co., Inc.....Audubon, N. J.
General Fireproofing Co....512 Bulletin Bldg., Phila.
McCalla Co., The Harold.....531 N. 4th St., Phila.
Pearce Fireproof Co.....1345 Arch St., Phila.
Truscon Steel Co.....Commonwealth Bldg., Phila.

METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

MILL SUPPLIES.
Bond, Chas., Co.....617 Arch St., Phila.
Fairbanks Co., The.....7th and Arch Sts., Phila.

MORTAR COLORS.
French, Samuel H., & Co....4th and Callowhill Sts.

ORNAMENTAL IRON.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Audubon Wire Cloth Co. .....Audubon, N. J.
Lederle, Robt. B.....Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.

ORNAMENTAL PLASTERING.
Voight Co. .....1743 N. 12th St., Phila.

PAINTING (Plain and Decorative).
Griffey Decorative Co.....206 S. 13th St., Phila.
Kuehnle, C. Albert.....11 S. 16th St., Phila.

PAINTS AND VARNISHES.
Barrett Co., The.....New York and Philadelphia
French, Samuel H., & Co.....4th and Callowhill Sts.

PAVING BRICKS.
Ketcham, O. W. .....Builders' Exchange, Phila.
Pardee, John S. E.. & Co.....Heed Bldg., Phila.

PHOTOGRAPHER (Commercial)
Hood, Harry S.....Keith's Theatre Bldg., Phila.

PIPE.
Griffith, James F. .....424 Moyer St., Phila.

PIPE FITTINGS AND VALVES.
Fairbanks Co., The.....7th and Arch Sts., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., St., Phila.
Johnson Co., Inc., J. D.....139 N. 7th St., Phila.
Vogel, Joseph, Co. .....Wilmington, Del.

PRESERVATIVES (Wood and Concrete)
Barrett Co., The.....New York and Philadelphia

RANGES
Borden Stove Co. .....1311-13 Arch St., Phila.
Klein Stove Co. ....Front and Fairmount Ave., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATION, AUTOMATIC—"ISKO."
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.

REFRIGERATORS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Klein Stove Co. ....Front and Fairmount Ave., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

REINFORCING BARS.
Hammond, R. R., & Co.....Widener Bldg., Phila.
Morris Wheeler & Co....30th and Locust Sts., Phila.
Truscon Steel Co. .....Commonwealth Bldg., Phila.
Witherow Steel Co. .....417 Widener Bldg., Phila.

ROOFING.
Barrett Co., The.....New York and Philadelphia

ROOFING TILE.
Ketcham, O. W. .....Builders' Exchange, Phila.

SAFETY GUARDS.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Audubon Wire Cloth Co. .....Audubon, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Kensington Metal Co.....1612 N. 2nd St., Phila.

SAFETY TREADS.
Hammond, R. R., & Co.....Widener Bldg., Phila.

SAND.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.
Sidley Silica Sand Co.....Widener Bldg., Phila.

SCALES.
Fairbanks Co., The.....7th and Arch Sts., Phila.

SCREENS.
Botts, E. G. .....5208 Chestnut St., Phila.
Malia, Thos. J. .....141 Wentz St., Phila.

SHEETROCK (Wall Board)
Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

SLATE.
Emack Co., John D. .....Otis Bldg., Phila.

STEAM SPECIALTIES.
Apeldorn & Beatty Co.....155 N. 9th St., Phila.

SOUNDINGS.
Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.
Ridpath & Potter Co.....Bourse Bldg., Phila.

STRUCTURAL STEEL.
Lederle, Robt. B. .....Witherspoon Bldg., Phila.
McCalla Co., The Harold.....531 N. 4th St., Phila.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Morris Wheeler & Co....30th and Locust Sts., Phila.

SURETY BONDS.
Beidler & Bookmeyer ..... 424 Walnut St., Phila.
Stokes, Packard, Haughton & Smith,
434 Walnut St., Phila.
Wagner-Taylor-Edson Co., Inc.422 Walnut St., Phila.

TERRA COTTA (Architectural).
Ketcham, O. W. .....Builders' Exchange, Phila.

TERRA COTTA SEWER PIPE.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

TILE AND TERRAZZO WORK.
Belfi Bros. & Co.....1923 Market St., Phila.
French, Samuel H., & Co.4th & Callowhill Sts., Phila.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

TRANSITS.
Robbins, Chas. H.....1209 Arch St., Phila.
Warren-Knight Co.....136 N. 12th St., Phila.
Weber, F., & Co.....1125 Chestnut St., Phila.

VACUUM CLEANERS.
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.
Davis, Garfield W.....18 S. 7th St., Phila.

WALL BOARD (Sheetrock)
Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

WALL COPING.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

WASHING MACHINES.
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.

WATER HEATERS.
Borden Stove Co.....1311 Arch St., Phila.
Davis, Garfield W. .....34 S. 17th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

WATER PAINT.
Oeters, John C. .....1242 N. 31st St., Phila.
Southern, Wm. B.,
N. W. Cor. 12th and Spruce Sts., Phila.

WATERPROOFING.
Barrett Co., The.....New York and Philadelphia
Concrete Waterproof Paint Co..829 N. 3rd St., Phila
Western Waterproofing Co.Stephen Girard Bld., Phila.

WATER SUPPLY SYSTEMS.
Harrison, Mertz & Emlen, Inc.,
Commercial Trust Bldg., Phila.
Keystone Supply & Mfg. Co.....927 N. 9th St., Phila.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.

WEATHER STRIP (Metal).
Botts, E. G. .....5208 Chestnut St., Phila.
Malia, Thos. J. .....141 Wentz St., Phila.

WHEELBARROWS.
Fairbanks Co., The.....7th and Arch Sts., Phila.

WHITEWASHING.
Oeters, John C. .....1242 N. 31st St., Phila.
Southern, Wm. B.,
N. W. Cor. 12th and Spruce Sts., Phila.

WINDOW GUARDS (Wire).
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Audubon Wire Cloth Co. .....Audubon, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Kensington Metal Co. .....1612 N. 2nd St., Phila.

WIRE PARTITIONS.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Audubon Wire Cloth Co. .....Audubon, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Kensington Metal Co. .....1612 N. 2nd St., Phila.

WIRE WORK.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Audubon Wire Cloth Co. .....Audubon, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Kensington Metal Co. .....1612 N. 2nd St., Phila.

1792 — FOUNDED 1792 — 1920

INSURANCE COMPANY OF NORTH AMERICA

PHILADELPHIA

Assets Over - - -	$32,000,000
Capital - - - -	4,000,000

This Company, now in its 128th Year, is in a stronger position than ever to look after the insurance interests of property owners. Has paid every loss since organization without fuss or red tape.

When ordering your insurance, why not take advantage of our broad protection which costs no more than other companies?

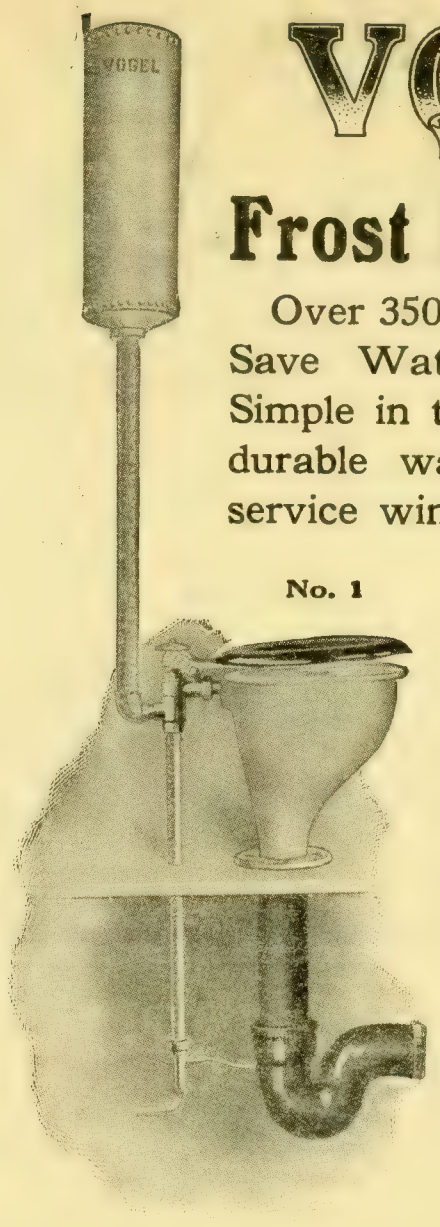
Fire Insurance	**Automobile**	**Cotton Insurance**
Tornado	**Use and Occupancy**	**Marine**
Sprinkler	**Builder's Risk**	**Rent**
Explosion	**Tourist**	**Leasehold**
Inland Transit	**Strike**	**Parcel Post**
Salesman's Floater	**Riot & Civic Commotion**	**Registered Mail**

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MAIN OFFICE
Third and Walnut Streets

CENTRAL OFFICE
Real Estate Trust Building



VOGEL

PATENTED

Frost Proof Closets

Over 350,000 giving satisfaction. Save Water; Require No Pit; Simple in the extreme. The most durable water closet made. In service winter and summer.

No. 1

Enameled roll flushing rim bowls.

Heavy brass valves.

Strong hard wood seat.

Heavy riveted tank.

Malleable seat castings will not break.

Sold by Jobbers Everywhere

JOSEPH A. VOGEL CO.

WILMINGTON, DELAWARE
ST. LOUIS, MO.



ALAN WOOD IRON & STEEL CO — ESTABLISHED — TRADE "A.W." MARK — 1826 — PHILADELPHIA

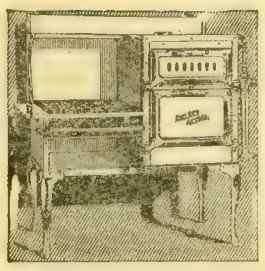
MANUFACTURERS OF

DIAMOND AND RIBBED PATTERN

Rolled Steel Floor Plates

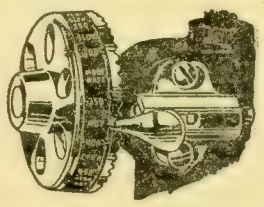
SIZES FURNISHED ON APPLICATION





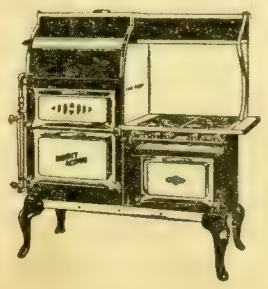
One of the many "reasons why" so many homes in and near Philadelphia are being equipped with the

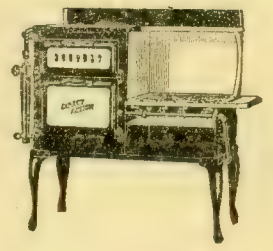
Direct Action Gas Range



is that its patented oven heat regulator eliminates all guess work in cooking and enables one to obtain the same results at all times. It SAVES GAS, TIME, FOOD and WORRY!

We have it connected up with gas on our sample floor and shall be glad to have you and your clients call any time to witness a demonstration. An attractive booklet showing the entire line is yours for the asking.







BORDEN STOVE CO., 1311-1313 Arch St., Phila.

The Touraine Apts, 1520 Spruce street; the Daniel E. Hogan Operations at 54th and Wynnefield avenue, and 60th and Columbia avenue; the William Pilton Operation at 5959 Larchwood avenue; and the Presser Operation at Yeadon, Pa. are a few of the many operations which are enjoying the advantages of the DIRECT ACTION GAS RANGE.

Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

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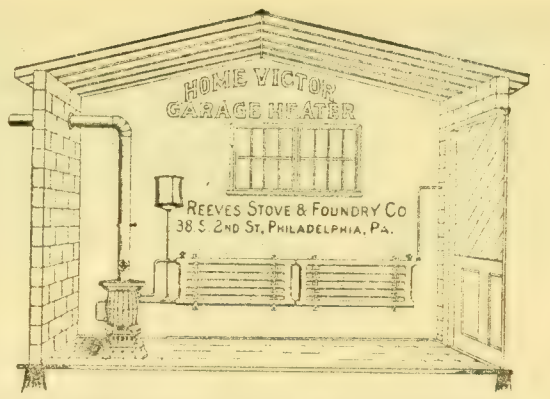
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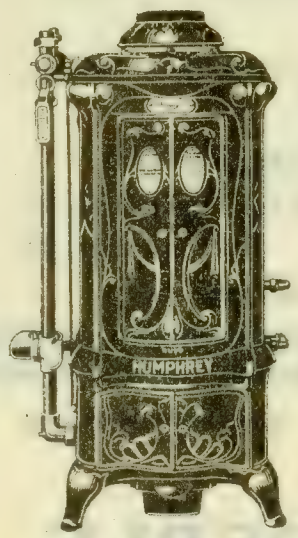
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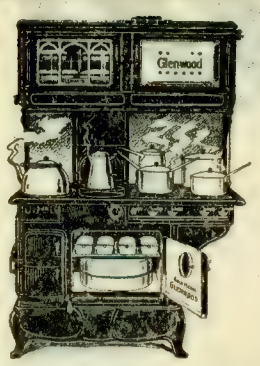
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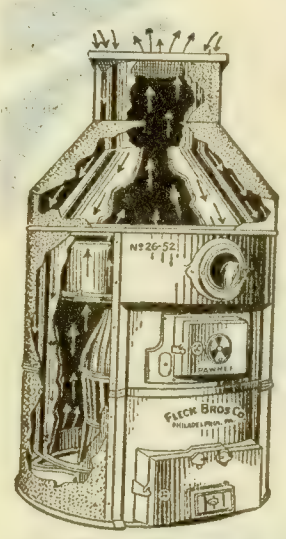


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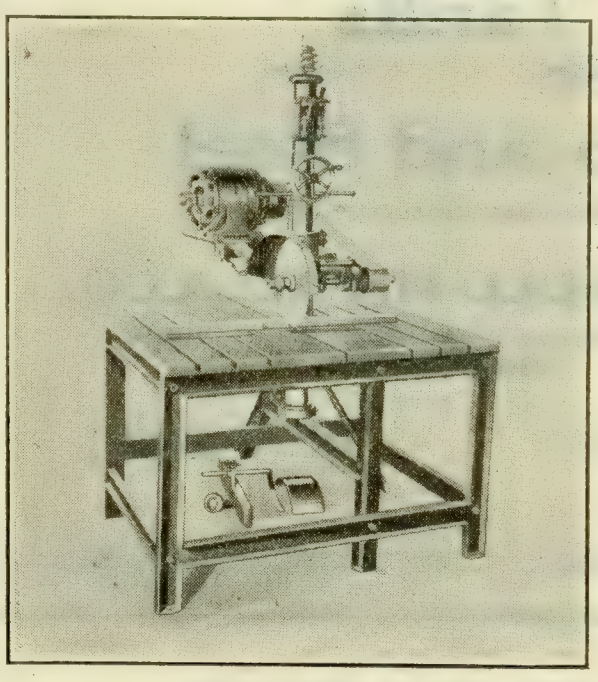
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 10

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March 10, 1920

BUILDERS' GUIDE

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As The Editor Sees It

FIRE losses, ten times greater here than in any other country, have always been a great menace to American life and property. In the view of the great dearth of all kinds of buildings and the great cost of replacement, loss of buildings by fire is at present a greater calamity than ever before.

We have, on several occasions, commented in these columns on the campaign against fire losses being carried on by various agencies.

The Common Brick Manufacturers' Association has now enlisted its efforts in support of a great educational and fire-prevention campaign and hand in hand with this movement goes reforestration.

The Structural Service Bureau, "an organization for promoting the greater, safer and more efficient use of building materials, equipment and devices, through a better understanding of their nature, manufacture and utilization," comments on this move of the Brick Manufacturers' Association:

One of the most forward-looking steps ever taken toward the preservation of life, conservation of natural resources, and reduction in loss of property, due to fire, and in the interest of preserving to the world the created wealth due to the labors of man, was taken by the Common Brick Manufacturers' Association at its second annual convention recently held in Columbus.

An address was delivered by D. Knickerbacker Boyd, a Fellow and former Secretary of the American Institute of Architects and, during the war, chief of the Material Information Section of the U. S. Housing Corporation, in which he deplored the fact that the various building materials industries, with the single exception of Common Brick, have in the past been clamoring for the use of their materials almost irrespective of their durability, safety and appropriate use in construction.

He stated that the time was immediately at hand when some organization should take the lead in instituting on he part of the governmental authorities, technical and other associations, a national program of education, in all matters pertaining to sound construction and the elimination of this country's enormous fire losses which are pratically ten times greater than any other country in the world.

In response to his rousing appeal it was voted by the convention to call upon the national, state, and municipal institutions to co-operate with existing scientific, professional, technical and other organizations of the country as to furnishing authoritative informative data on the source, manufacture and intelligent use of all materials of construction.

It was also voted to request the national government to put into effective operation a comprehensive plan for the scientific cutting of lumber and reforestration. Also that advantage should be taken in the interest of safety to life and property from fire, and in the interest of health, conservation and durability with consequent saving of maintenance cost of the materials extracted from the earth and that they should be used for all walls and roofs of buildings to replace combustible materials and to save for the other diversified uses of man the wood which can not be replaced by other satisfactory materials.

Stress was laid upon the necessity of preserving, insofar as possible, the God-grown growth of standing timber to protect the watersheds of the country, to conserve the scenic effects and natural resources, and to reduce the cost of safeguarding America against fire.

It was voted that all fire walls and party walls separating buildings and enclosing exits for human beings should be of solid materials, and the Common Brick Manufacturers' Association offered its services and facilities to all government officials, associations and citizens individually and collectively in the furtherance of the far-reaching program outlined above.

The complete resolution as adopted is:

Whereas, The Common Brick Manufacturers' Association of America, in second annual convention, assembled this eighteenth day of February, 1920, at Co-

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lumbus, Ohio, has been enlightened and inspired by an address of inestimable value to its organization, its members and the future of the product which it champions, and

Whereas, we wish to make proper recognition of the benefits of said address, by the adoption of a resolution, complimentary to its author, Mr. D. Knickerbacker Boyd, now, therefore, be it

Resolved, that we hereby do so and also place our organization on record as firmly believing in the principles herein set forth:

First, that the building policy of the people of this country has heretofore been too largely left to individual initiative which, without authoritative data from any one centralized agency, governmental or otherwise, has been conducted along lines based on lack of adequate information as to the source, nature and appropriate use of materials.

Second, that the many buildings constructed of wood have been largely responsible for exhausting the supply of lumber and causing the destruction of forests and standing timber produced by long years of growth and development impossible of replacement without similar long years of growth, if replaced at all.

Third, that the destruction of much of such growths of timber seriously affects the watersheds of this country, results in an enormous economic loss through lack of fullest conservation of the country's natural resources, and impairs the landscape, scenic effects and privileges of the people.

Fourth, that all such timber as can, through scientific cutting and reforestation be spared, should be made available for such of the diversified uses of man than which no other more suitable or satisfactory material is obtainable.

Fifth, that the products of nature's growths of timber should not be used in vertical structural features of buildings or for their roof coverings, or else where that any unburnable material might be used and that, wherever used, wood shall be adequately fire stopped, Therefore, be it further

Resolved, by the Common Brick Manufacturers' Association of America that the national and state governments be requested to put into effect as speedily as possible, a comprehensive plan for a system, observable in every state, for the scientifiic cutting of timber and reforestation;

And, that the national government be also requested to avail itself of the cooperation of all scientific, professional and technical organizations versed in conservation measures, fire prevention and permanent building construction, to educate and inform the people as to the proper materials to use and methods to employ in the erection of all buildings for the sheltering of humanity, in order to accomplish the following purposes:

(a) To secure safety to life from destruction by fire.

(b) To assure health and comfort of the occupants of buildings.

(c) To make for durability and consequent decrease in maintainance costs.

(d) To lessen the loss of property and conserve the natural resources of the country.

And, that those materials extracted from the earth, whose supply is practically inexhaustible and the nature of which is indestructible when properly manufactured and used, should be taken advantage of to replace destructible or combustible materials, in the interest, not alone of safety, health and maintenance, but to preserve to the world the wealth created by the labors of man, and to decrease the cost of safeguarding America against fire.

And, that the Common Brick Manufacturers' Association call upon the producers of all non-combustible building materials to co-operate with the government and with each other in securing the most appropriate and permanent use of such materials in the various features of building construction, including by reason of demonstrated facts the use of solid walls as proper for fire walls, party walls or barriers against fire in buildings or for exits, and be it finally

Resolved, that the Common Brick Manufacturers' Association offer to the government, to all scientific, professional and technical organizations and to the citizens of the United States, individually and collectively, the services and best offices of its organization and its members in securing in the interests of humanity, the most advantageous use of non-combustible, permanent and economic materials, including solid common brick as a basic building material.

RESOLUTION AFFECTING MEMBERSHIP FEES IN A. A. E.

A plan for a real unified engineering organization for the United States is contained in an announcement made by the American Association of Engineers that one-half of the entrance fee of $10 will be waived to applicants who are members of recognized national and local engineering societies and clubs of the United States. This arrangement will be in effect only until the 6th annual convention to be held May 10, 11 and 12 in St. Louis, unless it is extended by the convention. The resolution is as follows:

"Inasmuch as the support in membership of every professional engineer in the United States is needed by the American Association of Engineers to accomplish professional unity, and inasmuch as many engineers have helped the profession by giving time and money for a number of years to that end through recognized societies and clubs:

"Be it Resolved, that until the 1920 convention (May 10-11), the membership committee be authorized to waive one-half of the entrance fee of $10 to applicants who are in good standing in such recognized clubs and societies and to accept such applications when accompanied by an entrance fee of $5.00."

The Executive Board of the National Association of Building Trades Employers held a meeting in Chicago recently and, if there has been the least doubt as to the part this organization is to play in the construction industry in 1920, it now has been dispelled. Mr. Andrew Lanquist, of Chicago, is president of the association, and Mr. F. G. Webber, of New York, is the executive secretary. Both are thoroughly familiar with all phases of the building industry and especially well qualified to deal with the labor problem which is the chief problem with which the association concerns itself.

The National Association of Building Trades Employers has been organized to handle the labor question in the construction industry. It is not committed to a labor policy other than the arbitration of disputes and the handling of controversies by peaceful methods. This is its task and it takes it up without prejudice or predetermined policy, except as stated.

During the last six months it has made a very encouraging progress in its organization work. In January its first annual convention was held in Indianapolis and the constitution and by-laws of the organization were revised and strengthened and financial support planned on a scale liberal enough to permit of making the organization a real factor in the construction industry. During the next few months the organization work will be speeded up and there is every reason to believe that the organization will prove one of the major factors in bringing about a stabilization of labor conditions and the establishment of a system of arbitration in the building trades.

In addition to Mr. Lanquist and Mr. Webber, the recent executive board meeting was attended by E. M. Craig, Chicago; P. M. Fogel, Kansas City; W. F. Hennessy, Cleveland; G. C. Mills, Webster City, Ia.; C. C. Pierson, Indianapolis; D. T. Riffle, Pittsburgh, and C. F. Waltz, of Cincinnati.

Advance Construction News

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School, Ninth and Oregon avenue, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth street, above Chestnut street. Brick and reinforced concrete, 3 stories and basement, 98x218 feet, concrete foundations, composition roof, cement floors, hollow tile, tile and marble work, rolled steel skylights, roof ventilators, iron work (heating, plumbing, ventilating and electric work reserved). Lowest bidders: M. H. McCloskey, Jr., Inc., 1620 Thompson street, $499,979; electric work, J. F. Buchanan & Co., 1719 Chestnut street, $14,444; plumbing, Bullman Bros., Fifth and Cumberland streets, $23,750; heating, S. Faith & Co., 2427 Pennsylvania avenue, $65,955; ventilating, Sperzel & Schwartz, 1024 South Fifty-seventh street, $2,490.

School, Seventieth and Buist avenue, Philadelphia. Architect, private plans. Owner, Board of Education, Nineteenth above Chestnut streets, Philadelphia. Brick and reinforced concrete, 3 stories and basement, 218x98 feet, same detail. Lowest bidders: Wark & Co., 1737 Filbert street, general bid, $505,218; plumbing, Bullman Bros., Fifth and Cumberland streets, $24,786; heating, Munday & Co., 1318 Olive street, $65,531; electric work, Commercial Const. Co., 1220 Filbert street, $25,483; ventilating, Sperzel & Schwartz, 1024 South Fifty-seventh street, $2,490.

School (alts.), York and Memphis streets, Philadelphia. Architect, private plans. Owner, Board of Education, Nineteenth above Chestnut streets, Philadelphia. Alterations, additions and heating, lighting and plumbing. Lowest bidders: Mitchell Bros., 2125 Race street, $11,498; plumbing, Bullman Bros., Fifth and Cumberland streets, $1,916; heating, T. T. Rockett, 629 North Nineteenth street, $3,000; ventilating, Thompson Bros., 121 North Fifth street, $2,200; electric work, Strang Electric Co., 214 South Seventh street, $3,942.

Apartment House (alts. and add.), Nineteenth and Erie avenue, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, general alterations. Preliminary sketches being drawn.

Apartment House, Fifteenth and Green streets, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, John Melloy, 1419 Spring Garden street, Philadelphia. Brick, 4 stories, 32x110 feet, slag roof, general alterations. Owner is ready for sub-bids.

Residence, 5910 Tulip street, Philadelphia, $3,000. Architect, private plans. Owner, Raymold Baldwin, 3609 Van Kirk street, Philadelphia. Frame, 1 and 2 stories, 28x39 feet and 28x15 feet, slag roof. Owner will build.

Residences (10), Nedro street, west of Tenth to Warnock street, $30,800. Owner, John Janke, 6299 North Broad street, Philadelphia. Brick, 2 stories, 16x50 feet and 16x20 feet, 12x20 feet, slag roof, pine floors. Owner will build.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of Highways, care of John C. Winston, Director, Room 232, City Hall, Philadelphia. Grading, country road improvement, asphalt road oil, curbing and footway work, repaving with redressed granite block, paving with vitrified block and asphalt paving. Owners taking bids, due March 16th.

Residence, Gowen and Stenton avenues, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Albert T. Bauerle, Commonwealth Building, Philadelphia. Stone, 2½ stories, 28x22 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Will be ready for bids in a few days.

Stores and Dwellings (9), Kensington avenue, Ontario to Russell street, $47,000. Architect, private plans. Owner, Jacob Korman, 960 East Tioga street, Philadelphia. Brick, (7) 2 stories, (2) 3 stories, 18x60 feet and 16x37 feet, 13x37 feet, hot water heating. Owner will build.

Apartment House (alts.), Twenty-second and Walnut streets, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owners, Swarthmore Apartments, on premises. Alterations for restaurant, plastering, electric work, mill work, marble work. Architect is taking sub-bids.

Store Building, Southwest Corner Front and Diamond streets, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, J. Newman, on premises. General remodeling, pine and tile floors, store fixtures, metal lath, cement work, metal ceilings, flush bulks, tile and marble work, steam heating, electric lighting. Owner is ready for bids.

Store and Residence, Southwest Corner Fifteenth and Fitzwater streets, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, B. Aronowitz, 1500 Fitzwater street, Philadelphia. Brick, 3 stories, 28x24 feet, slag roof, pine floors, hollow metal skylights, metal bulks, hot air heat, electric light. Architect will be ready for bids in a few days.

Residence (alts.) to Store and Apartments, 5214 Walnut street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, W. Levy, Denckla Building, Philadelphia. Brick, front add., 2 stories, 16x14 feet, rear add., 2 stories, 16x20 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, plumbing, metal ceilings, flush bulks, plate glass. Owner will be ready for bids in a week.

Residence (alts. and add.) to Stores and Offices, Southeast Corner Sixtieth and Spruce streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, rear addition, hardwood floors, electric lighting, tile work, general alterations. Plans in progress.

Tunnel to General Storehouses, etc., Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, care of Major H. J. Lumsden, Q. M. C., Officer in Charge of Construction, Frankford Arsenal, Philadelphia. Concrete, waterproof. Owners taking bids due March 16th. Ketcham & McQuade, 1029 Brown street; Monaghan & Losse, 3016 Chestnut street; W. W. Anstine, 1218 Filbert street, and M. H. McCloskey, 1620 Thompson street, figuring.

Stores (alts.) (6), Tenth and Market streets, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Schulte Cigar Co., Fifteenth and Chestnut streets, Philadelphia. Mill work, tile work, electric work, glazing, plastering, metal lath, heating. Architects taking bids due March 12th. Pierce Henon, Inc., Bulletin Building; Albert Zellfelder, 151 South Broad street, and Ketcham & McQuade, 1029 Brown street, are figuring.

Loft Building, Thirteenth and Florist streets, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owner, name withheld. Brick, steel, concrete, 6 stories, 45x112 feet, stone foundations, slag roof, concrete floors, steam heat, electric light, tile and marble work, rolled steel sash, kalamein doors, elevators, iron work. Architects taking bids due March 11th. Frank G. Stewart, 1619 Sansom street, and Cramp & Co., Denckla Building, are figuring.

Residence (alts.), Upsal, Germantown, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, Charles Bromley, care of architects. Interior alterations, plumbing, painting, glazing, hot air heat, electric lighting, tile work, hardware, plastering, mill work. Architects are ready for sub-bids.

Store (alts.), 1301 Market street, Philadelphia. Architect, Charles H. Seymour, 405 Lexington avenue, New York City. Owner, National Drug Store Corp., care of architect. Carpentry, hardware, iron work, mill work, painting, glazing, plastering, sheet metal work, steel work, metal lath. Architect has received bids.

Home Building, York road and Tabor road, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Jewish Sheltering Home, on premises. Brick, stone and concrete, 2 stories, 100x250 feet. Architects will be ready for bids in a few days.

Rectory, Broad and Duncannon streets, Logan, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, Roman Catholic Church of the Holy Child, care of Rev. William J. McCaffrey, 5220 North Broad street, Philadelphia. Stone, brick and steel, 3 stories, 94x42 feet, slate roof, pine, oak, composition and tile floors, metal lath, marble and terrazzo work, ornamental



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iron work. Architect taking bids due March 13th at noon. Edward Fay & Son, 2 South Mole street; Henry P. Schneider, 3713 Old York road; Conneen Const. Co., 10 South Eighteenth street; Doyle & Co., 1519 Sansom street, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Store (alts. and add.), 1230 Market street, Philadelphia. Architect, David B. Bassett, Perry Building, Philadelphia. Owner, A. H. Geuting & Co., on premises. Limestone and brick, 4 stories, new front and general alterations and additions, steam heating, electric lighting. Architect taking bids due March 18th. Lam Building Co., 1001 Wood street; J. S. Rogers Co., Drexel Building; Barclay White & Co., 1713 Sansom street; Pomeroy Const. Co., 1609 Ranstead street; Frank G. Stewart, 1619 Sansom street, and F. L. Hoover & Son, 1023 Cherry street, are figuring.

Residence, 3928 Walnut street, Philadelphia. Architect, David B. Bassett, Perry Building, Philadelphia. Owner, John Miller, 3924 Walnut street, Philadelphia. Brick and steel, 2½ stories, 38x28 feet, slate roof, oak and pine floors, stone foundations, hot water heating, electric lighting, tile and marble work, ornamental iron work. Architect taking bids due March 15th. Thomas C. Trafford, 1613 Sansom street; Frank G. Stewart, 1619 Sansom street; Lam Building Co., 1001 Wood street; John J. Davies & Co., Twentieth and Clearfield streets, and Fred Brown, 4003 Sansom street, are figuring.

Factory, Fifth and Hunting Park avenue, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Querns-Brooks Hosiery Co., American and Diamond streets. Brick, steel and concrete, 5 stories, 55x200 feet, slag roof, stone foundations, steam heat, electric lighting, rolled steel sash, hollow metal skylights, elevators. Plans in progress.

Garage and Service Station, 1316-20 Poplar street, Philadelphia. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, A. Hartman, Strafford, Pa. Brick, 2 stories, slag roof, cement and reinforced concrete floors, stone foundations, rolled steel skylights, fire doors, ornamental iron work (heating, plumbing and electric work reserved). Owner is taking bids. Smith-Hardican 1606 Cherry street, is figuring.

Building, 808 North Broad street, Philadelphia. Architect, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Steel, brick, terra cotta and granite, 4 stories, 20x160 feet, slag roof, pine and composition floors, metal lath, elevators, roof ventilators, rolled steel skylights, iron work, steam heating, electric lighting. Architects have received bids.

Store and Apartments (alts.), Northwest Corner Fifth and South streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Harry Krengel, Northeast Corner Fifth and South streets, Philadelphia. Terra cotta and tile front, hardwood floors, steam heating, electric lighting, tile work, plumbing. Architects taking bids due March 19th. William R. Dougherty, 1610 Sansom street; Ketcham & McQuade, 1029 Brown street; Lam Building Co., 1001 Wood street; B. Bornstein, 1510 North Franklin street; Robbins Cont. Co., 1137 North Front street, and Monaghan & Losse, 3016 Chestnut street, are figuring.

Office Building, Broad and Spruce streets, Philadelphia. Architect, Cass Gilbert, 244 Madison avenue, New York City. Owners, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Brick, terra cotta, steel and concrete, 20 stories, 117x138 feet, tile roof, cement, maple, tile and terrazzo floors, metal lath, elevators, safety treads, roof ventilators, waterproofing, dampproofing, concrete foundations, steam heat, electric lighting, marble work, rolled steel sash and skylight, kalamein doors, iron stairs and iron work. Architect taking bids due March 23rd. Irwin & Leighton, 126 North Twelfth street; Metzger & Fisher, Otis Building, and Cramp & Co., Denckla Building; Warren Moore Co., Colonial Trust Building, Philadelphia, are figuring.

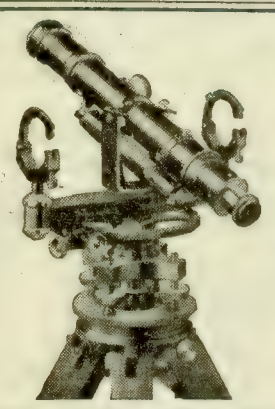
College Building (Logan Hall) (Rebuilding), Thirty-sixth and Woodland avenue, Philadelphia. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Chestnut streets, Philadelphia. General restoration, fire damage. Plans in progress.

Dwellings and Garage (23), Locust street, Fifty-fourth and Fifty-fifth streets, $173,500. Architect, private plans. Owner, S. Schlossberg, 6146 Pine street, Philadelphia. Brick, 2 stories, 16x57 feet, 15x32 feet, 12x23 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owner will build.

New Sterilizing Rooms and Alcoves (alts. and add.), Eighteenth and Parkway, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Medico Chirurgical Hospital, on premises. Plumbing, painting, hardware, marble work, sterilizing equipment, gypsum tile, roof ventilator, plastering. Architect taking bids, due March 15th. H. H. Burrell, 206 South Quince street, is figuring.

Manufacturing Building, 1712-14 Fairmount avenue, Philadelphia. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Keystone Auto Top Co., 1412 Fairmount avenue, Philadelphia. Brick, concrete and steel. Plans in progress. Will be ready for bids in about ten days.

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tect, Le Roy B. Rothschild, 1225 Sansom st., Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, 2 stories, 84x150 feet, steam heating, electric lighting. Plans in progress.

Moving Picture Theatre (alts.), Kensington District, Philadelphia. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owner's name withheld. General remodeling. Brick, 1 story. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage and Service Building, Broad and Belfield avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Crosstown Realty Co., on premises. Brick, steel, concrete and terra cotta, 1 story, 36x115 feet and 92x111 feet, slag roof, cement and pine floors, stone foundations, marble work, hollow metal sash, iron work (heating, electric work, plumbing and elevators reserved). Contract awarded to William G. Uhler's Sons, 1841 South Broad street, Philadelphia.

Warehouse, Fifty-second and Baltimore avenue, Philadelphia. Architect, private plans. Owners, Miller North Broad Storage Co., 2715 North Broad street, Philadelphia. Reinforced concrete and brick, 7 stories, 140x71 feet, slag roof, cement floors, terrazzo floors, stone foundations, steam heat, electric lighting, rolled steel sash, hollow metal skylights, elevators, waterproofing, dampproofing, iron work. Contract awarded to John N. Gill & Co., Otis Building, who are taking sub-bids.

Building (alts. and add.), Twenty-ninth and Dauphin streets, Philadelphia. Architect, private plans. Owners, International Tooth Co., Twenty-ninth and Dauphin streets, Philadelphia. Brick, stone and steel, 1 and 2 stories, 80x80 feet, slag roof, cement and maple floors, stone foundations, hollow metal skylights, roof ventilators (heating, electric work and plumbing reserved), iron work. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Garage, 901-05 North Broad street, Philadelphia. Architect, H. B. Weldon, Fuller Building, Philadelphia. Owner, Louis J. Kolb, care of H. T. Saunders, 31 South Eighteenth street, Philadelphia. Brick, 2 and 1 stories, 160x65 feet, slag roof, cement and maple floors, metal lath, elevators, stone foundations, steam heat, electric light, tile and marble work, iron work. Contract awarded to Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia.

Bank (alts. and add.), Second Floor Add., Germantown. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, Germantown Trust Co., Germantown and Chelten avenues. Brick, cut stone and steel, 20x58 feet, composition roof, pine floors, metal lath, steam heat, electric light, tile and marble work. Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

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Offices, 400 Chestnut street, Philadelphia. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, Robert Glendinning & Co., on premises. Alterations to offices, mill work, cabinet work, etc. Contract awarded to George Weiss Co., 1220 North Mascher street, Philadelphia.

Store (alts.), 1023-25 Market street, Philadelphia, $30,000. Architect, private plans. Owner, Hare Estate, Commercial Trust Building, Philadelphia. Carpentry, mill work, steel work, iron work, plastering, marble work, steam heating, electric lighting. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Business Garage, 1517-19 Vine street, Philadelphia, $26,000. Architect, private plans. Owner, Milton Stern, 1422 Vine street, Philadelphia. Brick, 2 stories, 33½x125 feet, steam heat, electric light. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Hospital (alts.), Frankford, Philadelphia, $14,000. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Frankford Hospital, Frankford, Philadelphia. Carpentry, mill work, plastering, painting (alts. to second floor). Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

Residence and Garage, Chestnut Hill, Philadelphia, $35,000. Architect, Herbert J. Wetherill, 430 Allen Lane, Mt. Airy, Philadelphia. Owner, Mrs. W. Beaumont Whitney, 146 East Walnut Lane, Philadelphia. Stone and steel, 2½ stories, 45x32 feet, wing 32x17 feet, garage 1½ stories, 21x13 feet, stone foundations, shingle roof, oak, pine and cement floors, electric light, tile work, metal lath, iron work (heating reserved). Contract awarded to William C. Wright, 22 Harvey street, Germantown, Philadelphia.

Factory (add.), Ridge avenue, North of Calumet street, $200,000. Architect, private plans. Owners, Powers, Weightman & Rosengarten, Ninth and Parrish streets. Brick, 4 stories, 200x53 feet, steam heat, electric light. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street.

Store and Storage (add. and alt.), 805 North Broad street, $11,000. Architect, private plans. Owner, Morris Abrahamson, 642 Pine street, Philadelphia. Brick, 1 and 3 stories, 20x40 feet and 20x65 feet. Contract awarded to H. Miller, 1427 Catharine street.

Store Building (alts.), Eighth and Chestnut streets, Philadelphia, $10,000. Architect, E. P. Clark, 1239 Broadway, New York. Owner, Regal Shoe Co., Eighth and Chestnut streets, Philadelphia. New front, painting, plumbing, plastering, tile work, mill work. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Residences (4), Wyoming avenue, East of "A" street, $26,000. Architect, private plans. Owner, Anna E. McClay, Wyoming avenue and "B" street, Philadelphia. Brick, 2 stories, 16x49 feet, hot water heating. Contract awarded to William McClay, 4743 "A" street, Philadelphia.

Residence and Store (add. and alt.), 6518 Ridge avenue, $6,000. Architect, private plans. Owner, Benj. Partenheimer, on premises. Brick, 2 story add., 16x48 feet, general alterations. Contract awarded to George M. Robinson, 632 Rex street.

Garage, Southwest Corner Ontario and Rand streets, Philadelphia, $10,000. Architect, private plans. Owner, Fred Munz, 3435 "E" street, Philadelphia. Brick, 1 story, 56x70 feet, cement floors, slag roof. Contract awarded to A. Earl Barnes, Twentieth and Pacific streets, Philadelphia.

Residence and Store (alts.), 34 North Six-

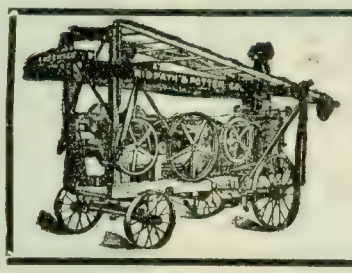


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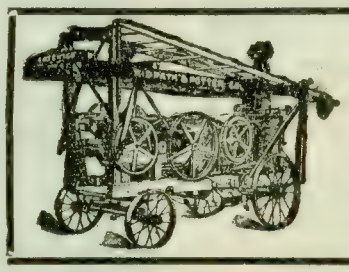
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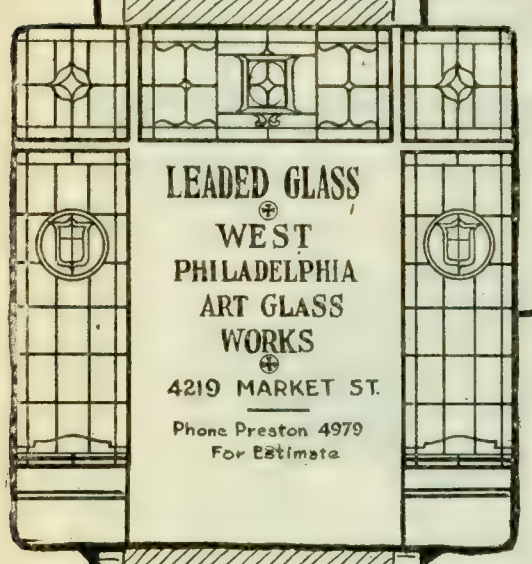
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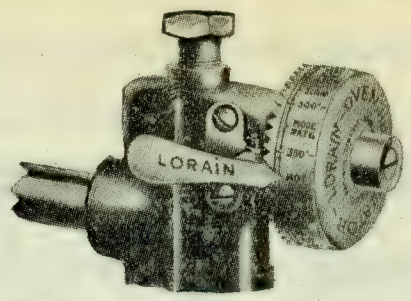
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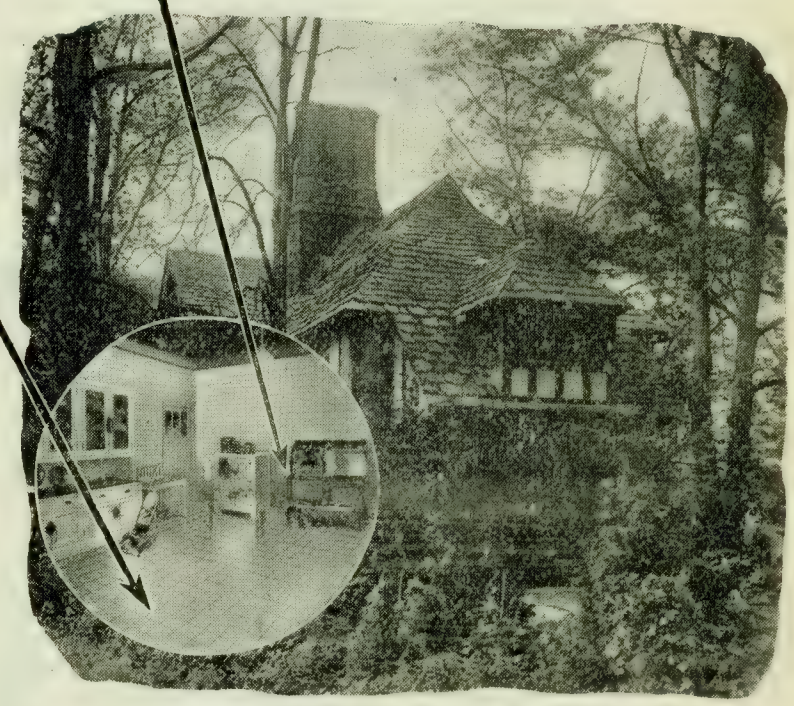
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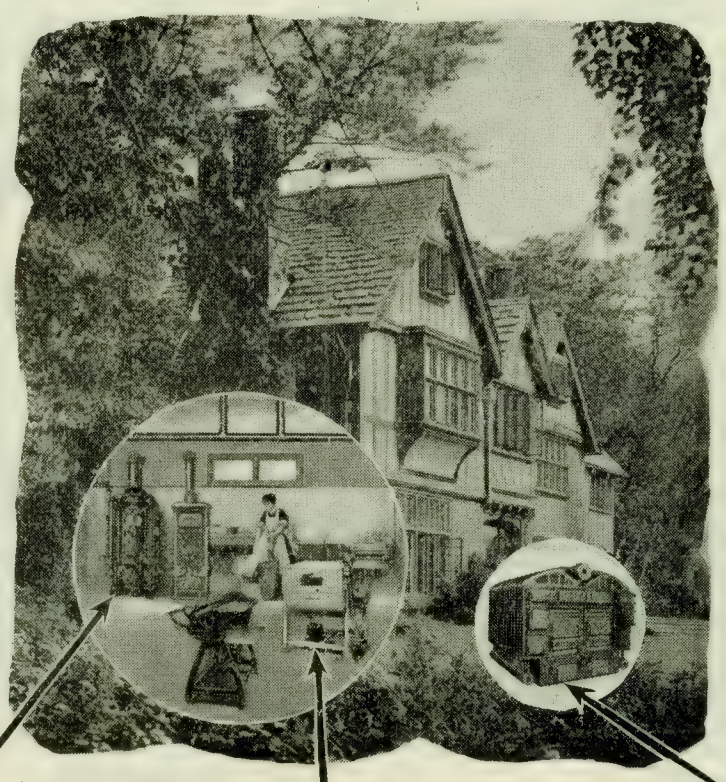
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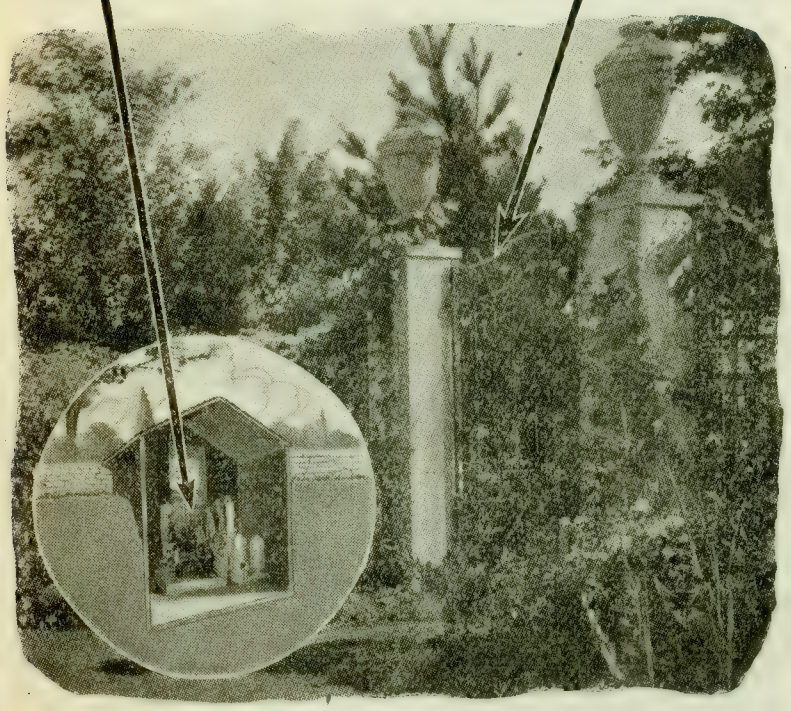
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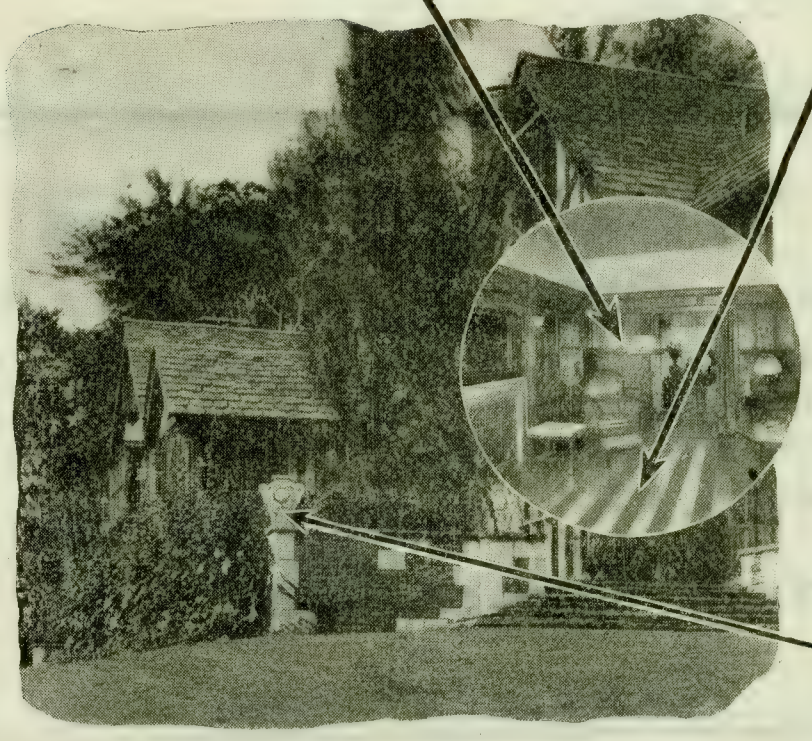
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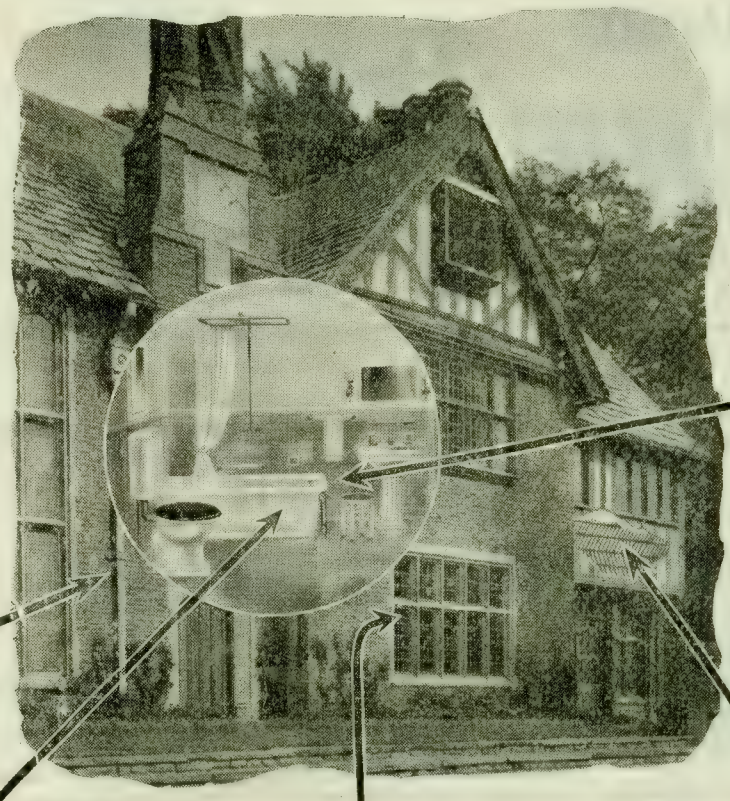


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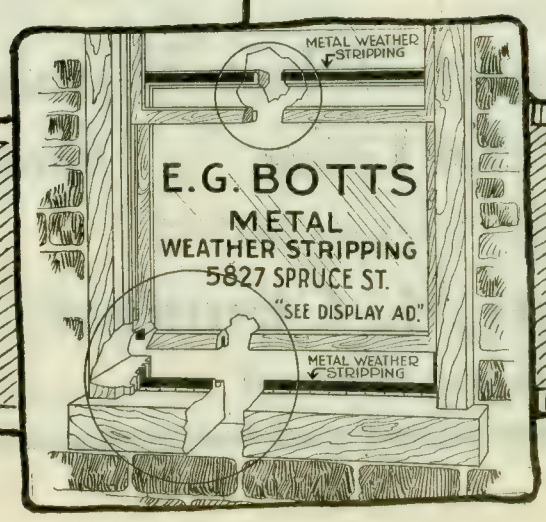




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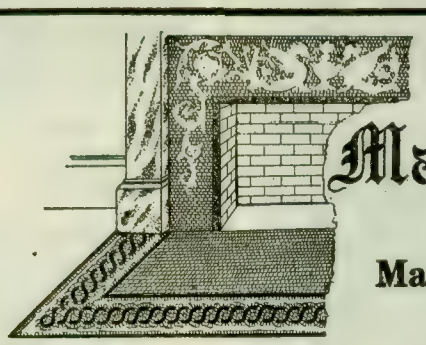
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tieth street, Philadelphia, $6,000. Architect, private plans. Owner, G. Karanzian, 11 North Fifty-third street, Philadelphia. General alterations, flush bulks. Contract awarded to S. A. Kevorkian, 1244 North Fifty-second street, Philadelphia.

Store and Apartments, 1923-25-27-29 Columbia avenue, $6,000. Architect, private plans. Owner, M. B. Willig, 1116 Lincoln Building, Philadelphia. General alterations, flush bulks. Contract awarded to Silverman & Godet, 2626 South Ninth street.

Stores and Offices (alts.), Broad and Brown streets, Philadelphia, $2,000. Architect, private plans. Owner, M. Morton Hecht, Empire Building, Philadelphia. General alterations. Contract awarded to W. John Stevens, Inc., Wyncote, Pa.

Residence, Eighty-seventh street, South of Eastwick avenue, $3,000. Architect ,private plans. Owner, Emma H. Heath, 3220 South Eighty-seventh street, Philadelphia. Brick, 2 stories, 28x41 feet, 28x12 feet, hot water heat. Contract awarded to Robert R. Heath, 3220 South Eighty-seventh street.

Dwelling (add. and alt.), 3741 Pulaski avenue, $3,000. Owner, J. T. Witte, 2072 Ridge avenue, Philadelphia. General alterations and additions. Contract awarded to W. E. Witte, 4817 North Fifteenth street.

Store and Dwelling (add. and alt.), 904 North Marshall street, $2,400. Architect, private plans. Owner, H. Waber, 906 North Narshall street, Philadelphia. General alterations and additions. Contract awarded to D. Wittenberg, Holmer, Pa.

Residence and Store (alts.), Southwest Corner Apsley and Wayne avenue, $2,000. Architect, private plans. Owner, Joseph D. Ambrorio, 4666 Wayne avenue, Philadelphia. Flush bulks. Contract awarded to John Roman, 313 East Bringhurst street, Philadelphia.

Manufacturing Building, 1007 Arch street, Philadelphia. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Rumsey Electric Co., 1231 Arch street, Philadelphia. Brick work, mill work, carpentry, plastering, composition floors, skylights, ceramic tile, new elevator shaft, kalamein doors (roofing, fire escape, elevator, heating and electric work reserved. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Office (alts.), 115-21 Chestnut street, Philadelphia. Architect, Arthur H. Brockie, Presser Building, Philadelphia. Owner, George McFadden & Bro., 115-21 Chestnut street, Philadelphia. Mill work, plastering, carpentry, plumbing, hardware, iron work, steam heat, electric lighting, tile and marble work, oak floors, metal lath, elevators, hollow metal sash and skylights. Contract awarded to J. S. Cornell & Son, Morris Building, who are taking sub-bids, due as soon as possible.

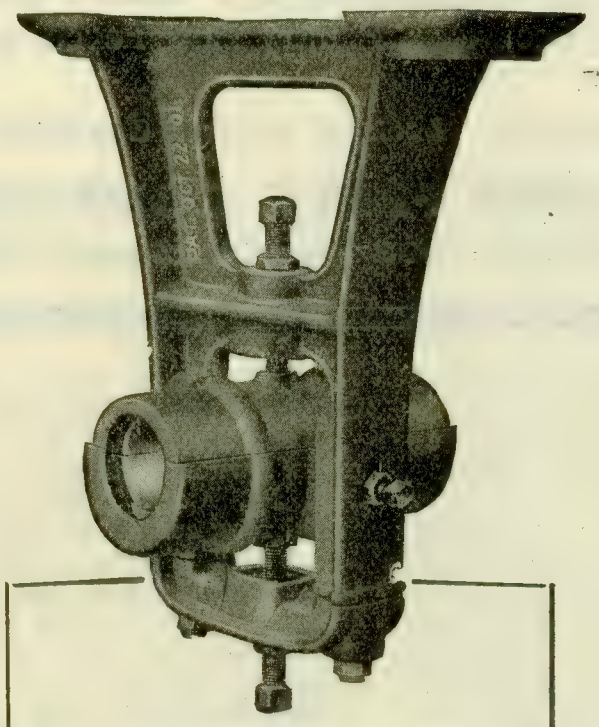
Garage, rear of 1912 Spruce street, Philadelphia, $3,200. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owner, C. Russell Hinchman, on premises. Brick, 1 story, 17x25½ feet, slag roof, cement oors, electric lighting, iron work, garage heatin gsystem. Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

Pennsylvania Construction News

Residence (alts. and add.), Reading, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, G. Howard Bright, Reading, Pa. Stone, add. 2½ stories, 30x27 feet, wing 20x20 feet, shingle roof, hot air and hot water heating, electric lighting, tile and marble work. Plans in progress.

Garage, Elkins Park, Pa. Architect, H. Rex

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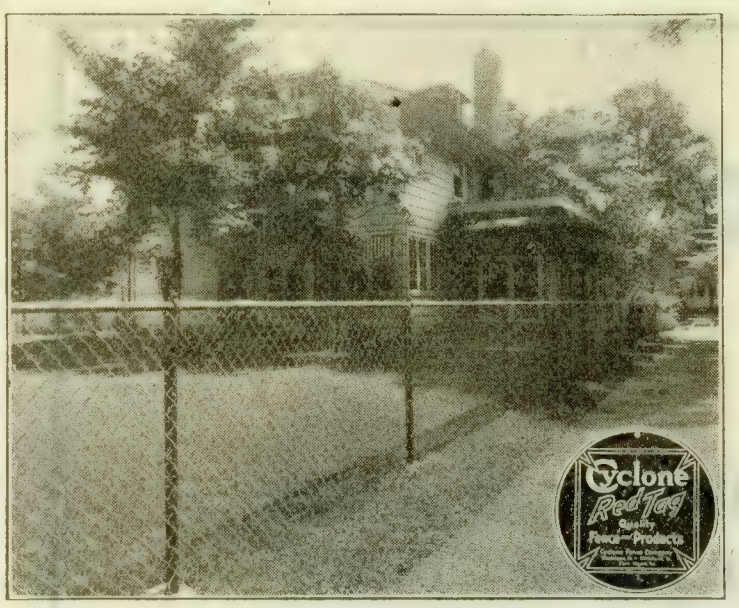
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Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Stone, 2 stories, 35½x22 feet, slate roof, pine and cement floors, steam heating, electric lighting, plumbing. Plans in progress.

Residence, Merion, Pa., No. 1. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, J. H. Weaver, Land Title Building, Philadelphia. Stone, brick and pebble dash, 2½ stories, 190x40 feet, slate roof, fireproof floors, stone foundations, steam heating, electric light, tile and marble work (interior decorating reserved). Architect has received bids.

Residence, No. 2, Merion, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, J. H. Weaver, Land Title Building, Philadelphia. Brick, stone and pebble dash, 2½ stories, 160x50 feet, slate roof, pine floors, steam heating, electric lighting, tile and marble work, stone foundations. Architect has received bids.

Club House, Delaware County, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, name withheld. Stone, 1½ stories, 50x60 feet. Plans in progress. Too early for details.

Residence, Drexel Hill, Pa. Architect, private plans. Owner, M. Malatesta, Wilmington, Del. Hollow tile and stucco, 2½ stories, 24x31 feet, shingle roof, hardwood floors, stone foundations, hot water heating, electric lighting. Owners taking bids.

Apartment House, Wynnefield, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Penn Apartment & Hotel Co., care of builders. Brick, concrete and steel, 4½ stories, 151x170 feet, slag roof, oak floors, hollow tile, stone foundations, steam heating, electric light, tile and marble work, hollow metal skylights, fire doors, iron work. Builders, Mackle McClelland Const. Co., Drexel Building, are taking sub-bids.

Residence, Springfield, Pa. Architect, F. G. Caldwell, Stephen Girard Building, Philastreet, Philadelphia. Hollow tile and stucco, 2½ stories, 28x54 feet, shingle roof, oak and pine floors, hollow tile, stone foundations, hot water heating, electric lighting, tile work. Architect has received bids.

Residence (alts. and add.), Ridley Park, Pa. Architect, John Emlen Bullock, 34 South Seventeenth street, Philadelphia. Owner, A. J. P. Gallagher, Ridley Park, Pa. General restoration (fire damage, new roof, new floors, partitions, mill work, painting, papering). Owner is taking sub-bids.

Shed, Swedeland, Pa. Architect, private plans. Owners, Rainey-Wood Coke Co., Swedeland, Pa. Corrugated iron and steel, 1 story, 60x45 feet, corrugated iron roof, hollow metal sash, hollow metal doors, star ventilators. Owners taking bids due as soon as possible. Lam Building Co., 1001 Wood street, and Essick Const. Co., 1345 Arch street, Philadelphia, are figuring.

Residence, Camp Hill, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner ,Philadelphia Development Co., care of architects. Hollow tile and plaster, 2½ stories, 100x47 feet, wing 22x30 feet, shingle roof, oak floors, vapor heating, electric lighting, tile work. Plans in progress. Architects will take sub-bids.

Church, Chester, Pa., $100,000. Architect, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Trinity Methodist Episcopal Church, Chester, Pa. Stone, 2½ stories, 70x100 feet, slate roof, pine floors, steam heat, electric work, iron work. Plans in progress.

Road Work, various locations, Pennsylvanie. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, Capitol Building, Harrisburg, Pa. Bids will be opened at 10 A. M. March 23rd, 1920, for the construction of the following roads. Plans $2.50 per set. Forms and specifications free on application to State Highway Department, Harrisburg, Pa.

Brandford County, Route 20, Troy and Canton Townships and Canton and Alba boroughs. Length, 43,573 feet. One course reinforced concrete. Certified check $4,000.

Butler County, Route 72, Middlesex and Penn Townships. Length, 26,061 feet. One course reinforced concrete. Certified check $4,000.

Centre County, Route 219, Boggs Township. Length, 21,658 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

Erie County, Route 84, LeBoeuff and Waterford Townships. Length, 35,492 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

Fayette County, Route 117, Bullskin and Upper Tyrone Townships. Length, 9,432 feet.

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McKean County, Route 97, Bradford Township and Lewis Run borough. Length, 31,269 feet. Either one course reinforced concrete or monolithic vitrified brick. Certified check $4,000.

Mercer County, Route 82, Jefferson, Delaware and Hempfield Townships. Length, 48,465 feet. One course reinforced concrete. Certified check $4,000.

Monroe County, Route 168, Stroudsburg borough and Stroudsburg, Hamilton and Pocono Townships. Length, 41,441 feet. One course reinforced concrete and hillside vitrified brick. Certified check $4,000.

Monroe County, Route 168, Pocono, Paradise and Cool baugh Townships. Length, 37,455 feet. One course reinforced concrete and hillside vitrified brick. Certified check $4,000.

Montgomery County, Route 151, Cheltenham, Abington and Moreland Townships. Length, 29,865 feet. One course reinforced concrete, $4,000.

Northumberland County, Route 2, Northumberland borough and Point Township. Length, 20,545 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Certified check $4,000.

Northumberland County, Route 2, Point Township. Length, 21,300 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

Tioga County, Route 22, Tioga borough and Tioga Township. Length, 15,686 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Certified check $4,000.

Northumberland County, Route 2, Point Township. Length, 21,300 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete, $4,000.

Tioga County, Route 22, Tioga borough and Tioga Township. Length, 15,686 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $3,000.

Venango County, Route 233, Victory and Sandy Creek Townships. Length, 50,025 feet. One course reinforced concrete and hillside vitrified brick. Certified check $4,000.

Road Work, various locations, Pennsylvanie. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, Harrisburg, Pa. Bids will be opened at 10 A. M. March 24, 1920, for the construction of the following roads. Plans $2.50 per set. Forms and specifications on request at State Highway Department, Harrisburg, Pa.

Adams County, Route 43, Cumberland and Franklin Townships. Length, 46,150 feet. One course reinforced concrete. Certified check $4,000.

Beaver County, Route 204, Chippewa and South Beaver Townships and Darlington borough. Length, 28,554 feet. One course reinforced concrete and hillside vitrified brick. Certified check $4,000.

Butler County, Route 78, Conoquenessing and Butler Townships. Length, 31,663 feet. One course reinforced concrete. Certified check $4,000.

Carbon County, Route 162, Mauch Chunk Township. Length, 19,950 feet. One course reinforced concrete and bituminous macadem on a Tolford base. Certified check $3,000.

Crawford County, Route 82, West and East Fallowfield, Sadsbury and Vernon Townships. Length, 47,700 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

eDlaware County, Route 226, Radnor, Haverford and Marple Townships. Length, 27,328 feet. One course reinforced concrete. Certified check $4,000.

Erie County, Route 295, Girard Township and Platea borough. Length, 21,268 feet. One course reinforced concrete. Certified check $4,000.

Fayette County, Route 288, Perry Township. Length, 15,323 feet. One course reinforced concrete and hillside vitrified brick. Certified check $3,000.

Franklin and Adams Counties, Route 43, Franklin Township in Adams County and Greene Township in Franklin County. Length, 44,165 feet. One course reinforced concrete. Certified check $4,000.

Huntingdon County, Route 33, Huntingdon borough. Length 1,910. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $1,000.

Lycoming County, Route 20, Hempburn and Lewis Townships. Length, 29,409 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

McKean County, Route 210, Eldred Township. Length, 14,800 feet. One course reinforced concrete. Certified check $3,000.

Northampton County, Route 156, Williams Township. Length, 34,902 feet. One course reinforced concrete. Certified check $4,000.

Northumberland County, Route 161, Rockefeller and Shamokin Townships. Length, 26,300 feet. One course reinforced concrete. Certified check $4,000.

Schuylkill County, Route 141, Orwigsburg borough. Length, 10,790 feet. One course reinforced concrete. Certified check $2,000.

Venango County, Route 208, Sandy Creek and French Creek Townships. Length, 19,061 feet. One course reinforced concrete and hillside bituminous brick. Certified check $3,000.

Road Work, various locations, Pennsylvanie. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, Harrisburg, Pa. Low bidders as follows (bids opened March 2nd):

Chester and Delaware Counties, Westtown, Willistown and Edgemont Townships, Route 133. Length, 19,416 feet. One course reinforced concrete. Dunleavy Bros., Coatesville, Pa., $212,849.70.

Crawford County, West Fallowfield Township, Route. Length, 24,787 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. The J. C. Devine Co., Alliance, O., $288,546.05.

Crawford County, West Mead Township, Route 207. Length, 22,675 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Martin Dolan, Jamestown, N. Y., $254,636.72.

Greene County, Jefferson Township, Route 268. Length, 13,811 feet. One course reinforced concrete and hillside vitrified brick. Con. Oil Tank Co., Pittsburgh, Pa., $164,444.44.

Lancaster County, West Donegal and East Donegal, Mt. Joy, Ralpho, East Hempfield and West Hempfield Townships, Route 129. Length, 28,576 feet. One course reinforced concrete. Freeland Construction Co., Freeland, Pa., $333,802.20.

Northumberland County, Ralpho Township, Route 182. Length, 11,549 feet. One

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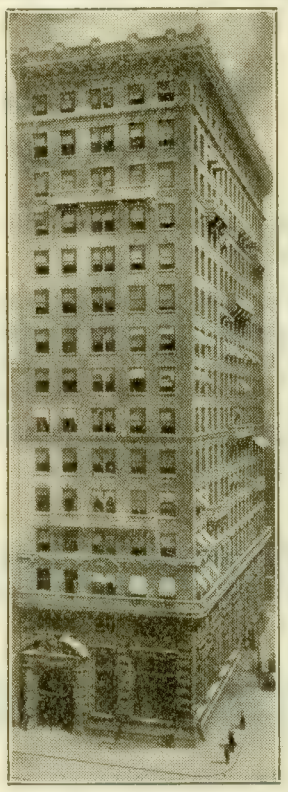
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course reinforced concrete. Fiss & Christiano, Shamokin Dam, Pa., $120,449.35.

Warren County, Tidioute borough, Appli. 973,974, Route 93. Length, 12,012 feet. One course reinforced concrete. Fish, Young & Parks, Philadelphia, $152,148.89.

Bids opened March 3rd:

Adams County, Cumberland and Freedom Townships, Route 298. Length, 29,716 feet. One course reinforced concrete and hillside vitrified brick. The Continental Contracting Co., Baltimore, Md., $303,784.35.

Armstrong County, Kiskimentas Township, Route 188. Length, 10,610 feet. One course reinforced concrete. F. S. & J. K. Wilson, Kittanning, Pa., $127,955.70.

Cambria County, Scalp Level borough, Richmond and Stony Creek Township, Route 222. Length, 24,207 feet. One course reinforced concrete. Torquato Bros. Co., Windber, Pa., $361,242.97.

Delaware County, Concord Township, Route 131. Length, 15,013 feet. One course reinforced concrete. Heyman & Goodman Co., Jersey City, N. J., $181,737.60.

Fayette County, Stewart and Wharton Townships, Route 366. Length, 26,267 feet. Either bituminous macadam penetration method on a broken base and hillside vitrified brick or one course reinforced concrete and hillside vitrified brick. Cunningham & Murray, Philadelphia, $377,857.80.

Fayette County, Perry and Jefferson Townships, Route 247. Length, 14,496 feet. One course reinforced concrete and hillside vitrified brick. Sam D. Foster, Pittsburgh, Pa., $203,491.90.

Garden Service Group, including Gate Lodge, Stable, Garage, Green House, etc., Villa Nova. Pa. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owner, George McFadden, Villa Nova, Pa. Stone, brick, concrete and steel, 2½ stories and 1 story, 126x34 feet, wing 64x26 feet, and wing 28x38 feet, slate roof, pine, cement and gypsum floors, stone foundations, hot water heat, electric lighting, marble work, metal lath, waterproofing, iron work. Architects taking bids, due at noon March 17th. Wm. O. Smedley, Narberth, Pa.; J. D. Lengle, Wayne, Pa.; Milton W. Young, Overbrook, Philadelphia; Frank H. Mahan, Ardmore, Pa.; Wm. H. Eddleman & Son, 453 Green Lane, Roxboro, Pa.; H. H. Burrell, 206 South Quince street; E. J. Hedden, Finance Building; F. A. Havens & Co., 845 North Nineteenth street, and J. S. Cornell & Son, Morris Building, Philadelphia, are figuring.

Laboratory and Barn, Ambler, Pa. Architects, Peuckert & Wunder, 310 Chestnut st., Philadelphia. Owners, Gilliland Laboratories, Ambler, Pa. Brick and concrete, 2 stories, 37x152 feet, slag roof, concrete floors, steam heat, electric lighting, tile work. Plans completed. Architects ready for bids.

Church and Rectory, Duquesne, Pa. Architects, J. C. Fulton & Son, Uniontown, Pa. Owner, First Methodist Episcopal Church, Duquesne, Pa. Stone, 2½ stories, 100x100 feet, slate roof, pine floors, stone foundations, electric lighting, tile work, copper skylights, iron work (heating reserved). Architect taking bids, due March 13th. Thos. Reilly, 1616 Thompson street, Philadelphia, is figuring.

Theatre (add.), Chester, Pa. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owner, Chester Theatre, Chester, Pa. Second story addition. Architects taking bids. Pierce Henon, Bulletin Building, Philadelphia, is figuring.

Stores (alts.), Lancaster, Pa. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owner's name withheld. General alterations, electric lighting. Architect taking bids, due as soon as possible. Jos. P. Breeneman, H. L. Wiant, and W. S. Warfel, all of Lancaster, Pa., are figuring.

Pennsylvania Contracts Awarded

Bridge, over Susquehanna River, Harrisburg, Pa., $3,000,000. Architect, private plans. Owner, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Concrete and steel, double track. Contract awarded to Smith-McCormick, Easton, Pa.

Mill Building, Arnold, Pa., $190,000. Architect, private plans. Owners, American Window Glass Co., Pittsburgh, Pa. Brick, steel and concrete, 1 and 2 stories, 60x600 feet, slag roof, cement floors, electric lighting, rolled steel sash. Contract awarded to Hughes Foulkrod Co., Commonwealth Building, Philadelphia.

Coal Trestle, Elm street and Stony Creek, Norristown, Pa. Architect, private plans. Owners, Philadelphia & Reading Railway Co., Reading Terminal, Philadelphia. Steel, 144 feet long, concrete foundations, concrete work carpentry, iron work. Contract awarded to F. H. Leonard, Wayne, Pa.

Residence, near Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, J. E. Matthews, care of Bethlehem Steel Co., South Bethlehem, Pa. Hollow tile and stucco, 2½ stories, 38x72 feet, slate roof, hot water heating, oak floors, electric lighting, tile and marble work. General contract for superstructure awarded to Frank Glasmire, Bethlehem, Pa.

Residence (alts. and add.), West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, F. A. Schick, Bethlehem Steel Co., Bethlehem, Pa. Hollow tile and stucco, 3 stories, 35x40 feet, slate and slag roof, oak floors, vapor heating, electric lighting, tile work. Contract awarded to R. B. Brice, Bethlehem, Pa.

Public Garage, Ardmore, Pa., $10,000. Architect, John Charles Norton, 29 West Lancaster avenue, Ardmore, Pa. Owner, Thomas Kerrigan, Ardmore, Pa. Brick, 1 story, 50x100 feet, slag roof, cement floor, electric lighting, hot water heating, fire doors. Contract awarded to B. Ganes, Bryn Mawr, Pa.

Mill Building, Lock Haven, Pa., $1,500,000. Engineer, George F. Hardy, 1932 Jerome avenue, New York City. Owners, Castena Paper Co., Lack Haven, Pa. Reinforced concrete, 1, 2 and 3 stories, slag roof, concrete floors, elevators, rolled steel sash, fire doors. Contract awarded to Turner Construction Co., 1713 Sansom street, Philadelphia.

New Jersey Construction News

Store and Dwelling (alts. and add.), Mt. Ephriam avenue, Camden, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, name withheld. Brick, 2 stories, 16x30 feet, slag roof, pine floors, interior alterations, plate glass. Plans in progress.

Residence, Haddonfield, N. J., $30,000. Architects, Custer & Gill, Third and Market

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

streets, Camden, N. J. Owner, name withheld. Hollow tile, 2 stories, 70x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Store (alts.), Mt. Holly, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, H. Krupnick, Mt. Holly, N. J. New store front, interior alterations. Plans completed. Architects will be ready for bids next week.

Garage, 512 Pine street, Camden, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owner, W. L. Hurley, Colwyn, N. J. Brick and steel, 1 story, 80x40 feet, slag roof, cement floor, steam heat, electric light. Architect taking bids due as soon as possible. J. W. Drake, Camden, N. J., and Standard Const. Co., 1713 Sansom street, and J. M. Yardley, 1716 Sansom street, Philadelphia, are figuring.

Bungalow, Avalon, N. J. Architect, Wesley L. Blithe, 608 Chestnut street, Philadelphia. Owner, Archibald T. Johnson, Land Title Building, Philadelphia. Hollow tile and rough cast, 2 stories, 35x70 feet, shingle roof, hardwood floors, concrete foundations, eelctric lighting, tile and marble work. Architect will be ready for bids in a week.

Residence (alts.) to Apartment, 192 West State street, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, Mr. Usher, Sarko Co., 193 East State street, Trenton, N. J. General interior alterations, new plumbing, tile work. Plans in progress.

Factory, Trenton, N. J., $300,000. Architect, Walter Hankin, 239 South Warren st., Trenton, N. J. Owner, H. D. Lee Merchantile Co., Kansas City, Kansas. Reinforced concrete, 6 stories and basement, 67x156 feet, slag roof, hardwood and concrete floors, low pressure heat, electric light, rolled steel sash, elevators, roof ventilators. Plans in progress. Architect will be ready for bids in ten days.

Restaurant and Apartment, West State st., Trenton, N. J., $300,000. Architect, Walter Hankin. 239 South Warren street, Trenton, N. J. Fireproof, concrete, brick and stucco, hollow tile, 6 stories, slag roof, 50x240 feet, hardwood floors, electric light, tile and marble work, rolled steel sash, elevators, roof ventilators. Architect will take bids March 12th.

Factory (add.), Southard street, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owners, National Porcelain Co., care of Bayard Dunker, on premises. Brick, 2 stories and basement, 51x72 feet, stone foundations, slag roof, plank floors, electric light, rolled steel sash. Architect has received bids.

Garage and Show Room, South Warren st., Trenton, N. J. Architect, R. G. Consolloy Commonwealth Building, Trenton, N. J. Owner, F. G. Fischer, Montgomery street, Trenton, N. J. Brick, 1 story, 75x41 feet, concrete foundations, slag roof, concrete floors, steam heat, electric light. Architect has received bids.

Residence (alts. and add.), Moorestown, N. J., $18,000. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, Dr. Emlen Stokes, Moorestown, N. J. Clapboard, mill work, plumbing, heating, electric lighting, oak floors, tile work. Owner is taking sub-bids.

Schools (2), Nos. 2 and 3, Audubon, N. J. Architects. John H| Mowere & David Land, Audubon, N. J. Owners, Board of Education, borough of Audubon, Camden County, care of George Hoffman, clerk, Audubon, N. J. Brick and stone, 1 story. Owners taking bids, due March 9th at 9 P. M. (Heating, ventilating, plumbing and electric work separate bids.) M. H. McCloskey, Jr., Inc., 1620 Thompson street, Philadelphia, is figuring.

New Jersey Contracts Awarded

Residence, Atlantic City, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Clarence H. Taubel, care of architect. Frame, 3 stories, 30x60 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Wills-Ludwick Co., 1706 Sansom street, Philadelphia.

Manufacturing Building, Newark, N. J., $250,000. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Mono Service Co., Newark, N. J. Brick and concrete, 3 stories, 200x100 feet, slag roof, concrete floors, steam heat, electric lighting, elevator, rolled steel sash, fire doors, concrete foundations. Contract awarded to Wark & Co., 1737 Filbert street, Philadelphia.

School, Stephens, N. J. Architect, W. Klemann, First National Bank Building, Trenton, N. J. Owners, Board of Education, Burlington Township, N. J. Brick, 1 story, 63x39 feet, slate roof, pine floors, electric lighting, stoves. Contract awarded to J. E. Kolster, Beverly, N. J.

Delaware Construction News

Residence (alts.), Seventh and West streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Mrs. M. Doordan, on premises. General interior work and new plumbing, tile work. Plans in progress.

Residence and Garage, Riverview, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick, 2½ stories, 68x38 feet, slate roof, concrete floors, electric lighting. Plans in progress.

School, Middletown, Del. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, New Castle County School Board, care of G. L. Medill, Newark, Del. Brick, 2 stories, 250x40 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work, hollow metal skylights, roof ventilators. Plans in progress.

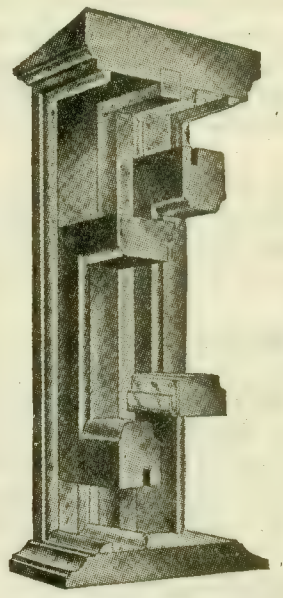
Residence, 209 Orange street, Wilmington, Del. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, D. Lestard, 210 West Fourth street, Wilmington, Del. Brick, 3 stories, 13x40 feet, slag roof, pine floors, electric light, tile work. Plans in progress.

Church, Twenty-second and Boulevard, Wilmington, Del., $30,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, McCabe Memorial, care of Rev. E. C. Williams, 703 West Twentieth street, Wilmington, Del. Stone, 1 story and basement, 53x65 feet, stone foundations, slate roof, hardwood floors, electric light, tile work. Plans in progress. Architect will take bids in two weeks.

School (add.), Wyoming, Del. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Wyoming and Camden School District, care of Dr. T. R. Brown, Equitable Building, Wilmington, Del. Brick, 3 stories, 36x38 feet, slag roof, maple floors, steam heat, electric light. Architect has received bids.

Residence, Gordon Heights, Del. Architect, C. L. Rice, 815 Market street, Wilmington, Del. Owner, Mrs. Vanzant, Gordon Heights, Del. Frame and stucco, 2 stories, 43x32 feet, asbestos shingle roof, hot water heat, electric light, tile work, hardwood floors. Architect has received bids.

Bank and Office Building, Ninth and Market streets, Wilmington, $291,000. Architect, Hoggson Bros., 485 Fifth avenue, New York. Owner, Wilmington Saving Fund Association,



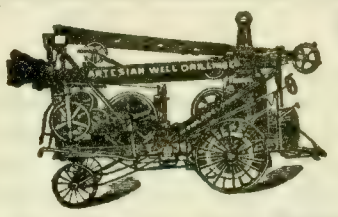
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Wilmington, Del. Brick, stone, steel, 1 story and basement and 3 stories, 60x210 feet, concrete foundations, asbestos roof, hardwood floors, steam heat, electric light, tile and marble work, rolled steel sash and skylights, metal lath, roof ventilators. Architects will build.

Theatre, Seaford, Del., $35,000. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owner's name withheld. Brick, 1 story. Preliminary plans in progress. Too early for details.

Garage and Service Station, Penn and Union streets, Wilmington. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld, care of architect. Brick, steel, concrete, 2½ stories, 35x35 feet, slate roof, concrete floors, electric lighting. Contract awarded to W. H. May, Wilmington, Del.

Publishing House (alts.), Fourth and Shipley streets, Wilmington, Del., $8,000. Architect, private plans. Owners, Evening Journal, on premises. Interior alterations. Contract awarded to S. H. McCoy, 2213 Washington street, Wilmington, Del.

Miscellaneous Construction News

Office and Sales Building, 17-23 West Sixtieth street, New York City. Architect, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Associate architect, Newton Bond, Springfield, Mass. Owners, American Bosch Magneto Corp., 223 West Forty-sixth street, New York City. Reinforced concrete, brick and terra cotta, 10 stories, 96x73 feet, slag roof, cement, mosaic, granolithic and tile floors, stone foundations, steam heating, electric lighting, marble work, hollow tile, metal lath, elevators, hollow metal sash and skylights and doors, waterproofing, iron stairs, iron work. Architects taking bids due March 15th. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

Building, Boaz, Ala. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, John H. Snead Seminary, Boaz, Ala. Brick, 3 stories. Plans in progress. Architects will be ready for bids in about one month.

Residences (2), Hagerstown, Md. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, Emmet W. Gans, Hagerstown, Md. Stone and frame, 2 stories, 35x35 feet and 22x55 feet, shingle roof, North Carolina pine floors, stone foundations, hot air heating, electric lighting. Owner is taking subbids.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

FINAL UNIFORM STANDARD SIZE FOR BRICK

At the second annual convention of the Common Brick Manufacturers' Association of America, held in Columbus recently, a paper was read by William Carver, assistant secretary of the Association, on "Why There Should Be a Standard Size for Common Brick." Among otner things, Mr. Carver said:

"Taking up in detail the advantages to the architect, the engineer, and the contractor in having a uniform, standard size, it is now recognized that in most localities, common brick are entirely suitable for facing purposes. In making working drawings for brick buildings, the architect finds it impossible to dimension such things as window and door openings and pier and pilaster sizes until he knows the size of the brick which will be supplied to the project. This means much lost time and motion, and if it is decided to change over to another brick, a great deal of money is lost in changing dimensions all over the drawings.

From my own experience, I can assure you that the architect will welcome heartily a standard size brick, so that no matter where the building is that he is designing, he can go right ahead with his working drawings.

The considerations which affect more particularly the engineer are also of great importance to the architect. The structural engineer is interested especially in the strength of a building and its parts. He must have defiinite formulas of strength of his materials. These formulas are derived from actual tests generally made by concerns specializing in such work, or by universities, etc. He can obtain formulas covering the strength of wood, steel or cement down to the last fraction of the pound. When he comes to brick, however, he is forced to do some guessing, owing to the variation in the sizes of the bricks which are tested.

When common brick is used to back up face brick, both the face brick and the common brick should be of the same size. The weakest part of a wall is the mortar joint and where the mortar joint has to be increased, the wall is weakened just that much. Where the face and backing are of different sizes, the courses must be evened up by increasing the mortar joint either on one side or the other.

A bricklayer cannot work fast when the bricks are of different sizes and any factor which tends to increase the cost should be eliminated as far as possible. In a recent letter one of the engineers of the Department of Public Works, Philadelphia, says:

"I am in receipt of your letter regarding standard size for brick. I have been wondering for a very long time why we had so many different sizes of brick throughout the country, and, in fact in local territories. It has seemed to me that every manufacturer has persisted in manufacturing his own size. In my opinion, there is no reason why we should not have uniform dimensions for brick, except possibly for fancy face brick used in building construction. I would certainly welcome in my work, a uniform dimension."

When a contractor is figuring a building, he should be able to know before hand just how many brick go into a wall. Upon this depends also the amount of bricklayers' time required to lay the brick, and the amount of material in the mortar.

There is, I believe, great value in having one standard for all bricks, whether face or common. During the war, the government showed us the great waste in having different standards for similar materials. One of the first steps it took to put industry on more efficient basis consisted in eliminating many standards which, up to that time, had been considered essential. And apart from the question of strict utility, there will be a great advantage in letting the building trades know that from now on every brick of every kind will be of the same uniform dimension.

When speaking of the standard size, I refer to the size 3¾x2¼x8. There are several reasons why, in our opinion, this size should be adopted by our own association. Figuring with a joint of ½" two headers plus a joint just equal the length of a stretcher. This makes it possible to use almost any bond or pattern desired on the face of the wall without difficulty.

The same consideration would also hold true regarding the thickness of the wall. With a wall 8" thick, there would be a vertical joint ½" thick between each 4" thickness of wall, and all building codes throughout the United States will be able to call for an 8 or 12 for 16-inch wall without fractions.

Another very important reason is that this size has already been adopted by the American Face Brick Association and the National Brick Manufacturers' Association. Comparisons were made on the relative amount of clay required for an over-

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sized and a standard brick, and the selling price of each. It seems to me that before we can have a uniform accounting system, of much value, every brick manufacturer must base his accounting on the same sized brick, or his figures will be misleading."

Letters were read by Mr. Carver from Prof. A. V. Bleininger and Warren E. Emily of the United States Bureau of Standards, expressing themselves favorably toward the adoption of a uniform standard size for brick.

After some discussion, on the part of manufacturers and the reading of extracts from various specifications, governmental and others by D. Knickerbacker Boyd, consulting architect of the association, showing the further necessity for a common standard, the size 2¼x3¾-x8" was unanimously adopted as the standard size brick of the Common Brick Manufacturers' Association of America.

Committee C-3 of the American Society for Testing Materials convened in Columbus the following day, and it was voted to put to letter ballot of the full committee the recommendation of those those members present that their tentative size be changed to meet the size adopted by the Common Brick Manufacturers' Association. Thus, the standard size of that Society, the American Face Brick Association, the Common Brick Manufacturers' Association of America, the National Brick Manufacturers' Association will be exactly the same, 2¼x3¾-x8", making this size the National Standard.

PROTECTION OF HISTORIC BUILDINGS

By Horace Wells Sellers.

Those who have read Baring Gould's sketches of "An Old English Home" may recall his chapter relating to the parish church in which he deplores the injury so many of the ancient buildings have suffered in the hands of the so-called "restorers." Many of these structures, he reminds us, were built of local materials, and decorated by the inhabitants of the parish, who left in their handicraft something of their very best, only to be replaced in modern times by stuff manufactured at a distance and too often chosen from an illustrated catalogue. "Some wiseacres," he adds, "cry out because antiquaries complain at this devastation, but have not these latter a right to complain when parochial history written into the parish church is being obliterated?"

It is reassuring to know that these sentiments became sufficiently widespread in England to crystallize into a permanent organization entitled the "Society for the Protection of Ancient Buildings," founded in 1877. In the current annual report of this Society its purpose is set forth in its plea to put Protection in place of Restoration, in dealing with ancient structures of historic and architectural interest, and, while staving off decay, to resist the temptation to tamper with either the fabric or its ornament; "in fine to treat our ancient buildings as monuments of a bygone art, created by bygone manners, that modern art cannot meddle with without destroying."

The report calls attention to the fact that each change made during the early history of these ancient structures reflects truthfully the fashion of the time, and that imitation or forgery was impossible in the era of medieval art, while today the civilized world, amidst its knowledge of the styles of the past, has no style of its own in the same sense that the architecture of the Middle Ages was alive with the spirit of the times in which it was fashioned.

While this is true of the more ancient monuments of the Old World, the same plea cannot apply without quailfication to the architecture of the latter times, and especially of the seventeenth and eighteenth centuries to which our early American buildings belong, and which we would see restored to their original condition. We are only too familiar with changes wrought in our early architecture during the nineteenth century, after the breaking away from the principles of design that governed the work of our master builders during the colonial period, and we have not, therefore, the same occasion to deplore the destruction of modern details where changes made in the nineteenth century are in the way of the restoration of an ancient building.

We can, however, join with our English kinsmen in the support of the general principles of preservation rather than attempted restoration where the craftsmanship of the Middle Ages is concerned, in the desire to safeguard what James Russell Lowell in writing of our relations to the mother country describes as "its heirlooms of immemorial culture, its historic monuments, ours no less than theirs."

The report before us contains photographs of interesting buildings, representing cases the Society has had to deal with as a general indication of the work accomplished during the preceding year. It points out that even where a structure has come into private hands, and it is threatened with changes to adapt it to the owner's needs, the Society has been successful in having the work done under the supervision of an experienced architect in sympathy with the Society's ideals.

Included in the report is a paper read by Prof. S. D. Ashead, F. R. I. B. A., dealing with "Old Villages and Village Reconstruction," in which is traced the growth of the early English communities. In presenting his plea for their protection he quotes William Morris, who, in addressing a group of young architects, said that "at one time any village could boast of a decent little chap who knew something of building, who could put up a decent little home for a decent little man to live in, but now it takes a highly skilled architect to draw up plans and arrange technicalities."

Professor Adshead, in considering the ancient villages of England, holds that "he who can carelessly destroy the works of those who have long since ceased to toil is surely lacking in a sense of reverence and respect," and while we on this side of the Atlantic may not go quite as far as this, especially when we view the towns that are the product of the period of our greatest industrial growth we can sympathize with the Professor's point of view in the face of the changes being wrought by foreign immigration in case of some of the ancient villages of New England."

We can agree with him also in his suggestion that instead of improving and enlarging the picturesque old villages by crowding in new structures among the old, the "policy should be to create new villages entirely separate, but close to the original settlement, just as Brighton and Hastings are not extensions or enlargements of the old fishing villages"

The activities of this English society in its special field are similar to those of our "Society for the Preservation of New England Antiquities," and, in this age of shifting change in our older communities, there is increasing need of agencies to safeguard the landmarks in the keeping of this generation and which should be the heritage of those who come after us.—*Journal of American Institute of Architects.*

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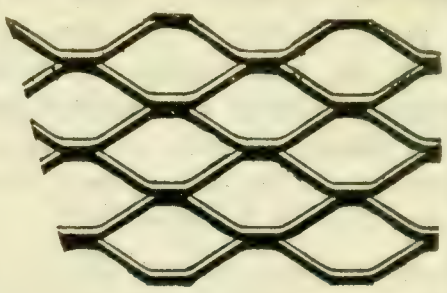
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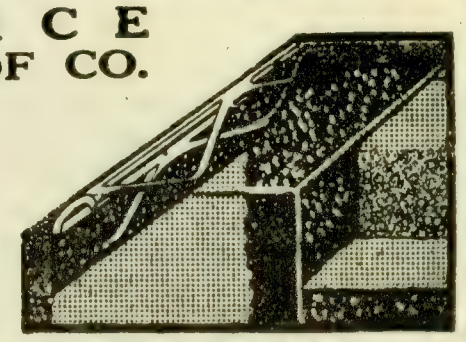
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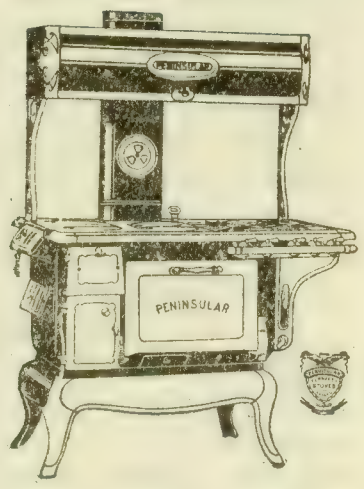
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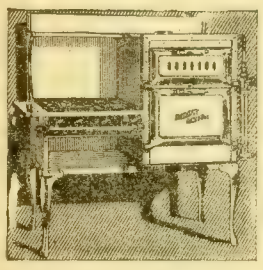
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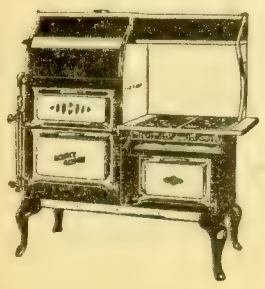
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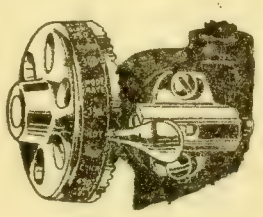
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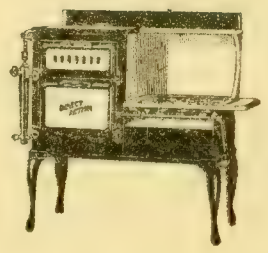


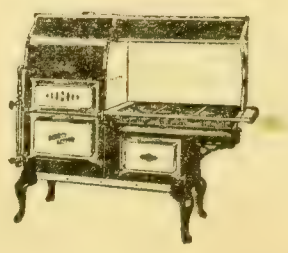
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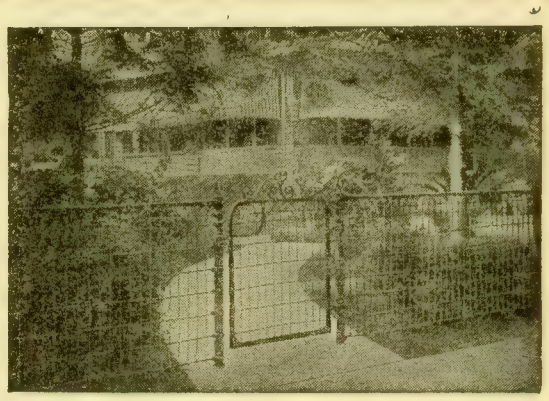
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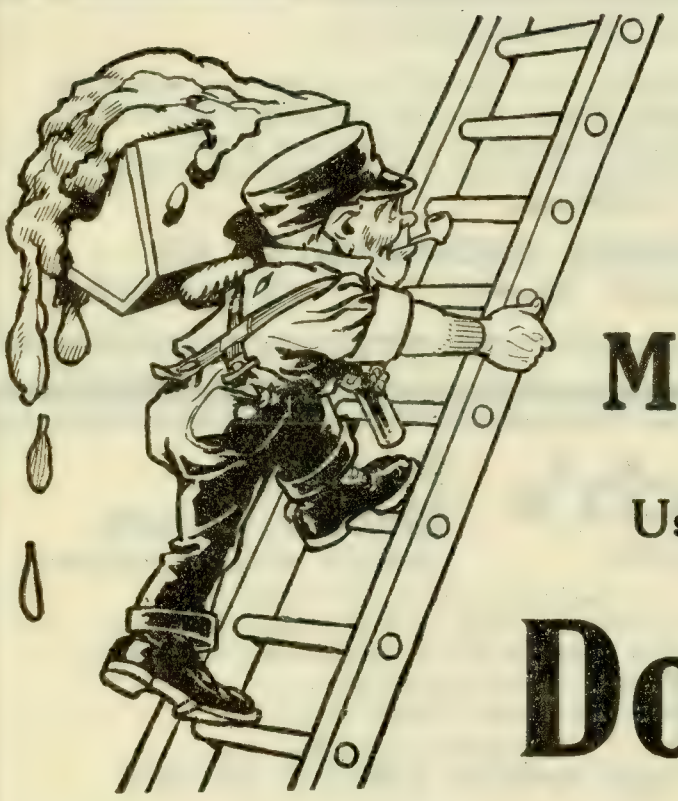
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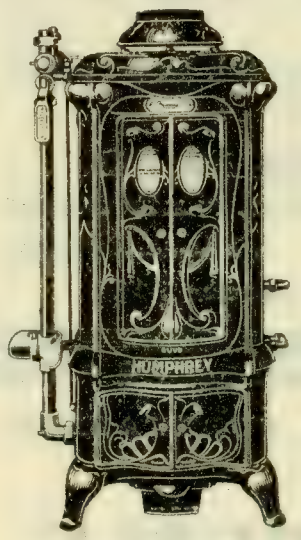
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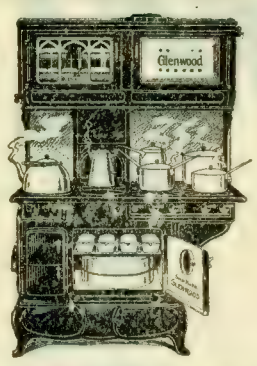
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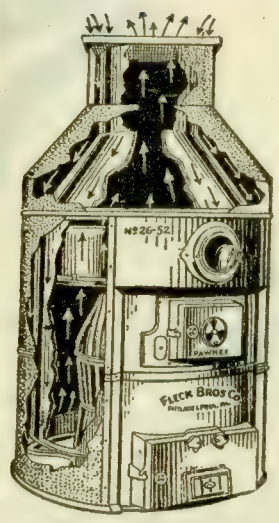


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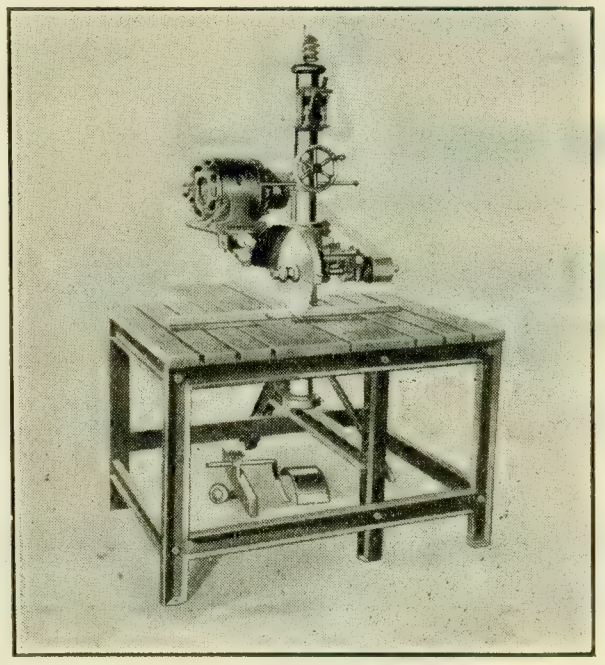
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VOLUME XXXV
Number 11

PHILADELPHIA
March 17, 1920

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As The Editor Sees It

We are in receipt of the following communication from Major E. E. Hollenback, President of the Philadelphia Master Builders' Exchange. In a spirit of co-operation we gladly reproduce the notice. Hereafter all notices of meetings of the Exchange, or of its committees, conferences of all kinds, comments, suggestions, criticisms or whatever may be of interest to the members of the Master Builders' Exchange will be found in the BUILDERS' GUIDE. It is our desire to help stimulate interest in the Exchange, to promote closer contact between the members, to further the work of the Exchange by developing a spirit of co-operation among the building trades.

In these days, when so much depends on how soon we can get deliveries in all materials and how fast we can complete jobs, why not get together and help each other overcome difficulties? What better time to talk over these matters than at lunch on Thursadys? Support Major Hollenback and his administration. If you have anything to suggest, any criticisms to offer, let's have them; we'll publish.

President Hollenback's letter:—

THURSDAY, MARCH 18th. 12.30 until 1.30 P. M.

LUNCHEON OF THE MASTER BUILDERS' EXCHANGE will be held at the BELLEVUE-STRATFORD CLOVER ROOM.

The speaker will be Major General William G. Price, Jr., a strong, convincing talker. General Price has a most interesting message for men.

You must lunch. Why not with us?

A fine lunch; one speaker, and it all takes place in exactly *one hour.*

Meet your friends at the luncheon and bring a guest, particularly a man connected with the building industry.

Single tickets may be purchased at the dining hall or at the Builders' Exchange, for the balance of the March luncheons.

The April luncheons will be very interesting, indeed. Look over the following speakers:—

March 25—Thomas Shallcross, Real Estate Board.

April 1—William D. MacAvoy, the newly-appointed U. S. District Attorney.

April 8—David Knickerbacker Boyd, the well-known architect.

April 15—Someone you will be glad to hear.

The luncheons are just one of the many things planned by the Exchange this year. Keep step with us. We are going ahead. You will need us and we will need you.

Constructive criticism is helpful. We welcome it.

Camilus Phillips, secretary and superintendent, and Charles H. Trommer, assistant secretary, are no longer connected with the Exchange. E. J. Woods has been appointed secretary.

The office of the Exchange is being reorganized to meet the increasing business, and to help every man in the building industry.

Two private branch telephone exchanges are being installed and an operator will be ready to take your calls or messages.

For any information call Bell, Market 2806 or 3582; Keystone, Main 2932 or 2933.

Each member owns part of the building; each is a master in his line; without one, the building could not be erected; hence the name, MASTER BUILDERS' EXCHANGE.

For prompt attention all communications should be addressed to the MASTER BUILDERS' EXCHANGE, 18 S. 7th St.

We will look for you at the Thursday luncheon. Come out and join the good fellows. Don't miss a good talk and a good lunch.

* * *

ON repeated occasions, Honorable J. Hampton Moore, Mayor of Philadelphia, has requested suggestions for betterment of the city. A Delaware River Bridge from Philadelphia to Camden is now strongly advocated. Accordingly, elsewhere in this issue, appears a plan prepared by E. Simpson Lemmon, for the last thirty years a practicing architect and engineer in New York, Philadelphia, Washington and other cities. Mr. Lemmon's plan and accompanying description emphasizes ad-

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vantages in utilizing districts not at present congested.

* * *

THERE is food for thought in the recent letter from Mr. John Ihlder, Secretary of the Philadelphia Housing Association, to the President of the Philadelphia Real Estate Board. In our efforts to meet the great and daily increasing demand for buildings in this city, it is very easy to look only to satisfying the present needs of the community and overlook the objectionable developments which may result from lack of comprehensive consideration.

"At recent meetings," says Mr. Ihlder, "where the zoning ordinance has been discussed by real estate men, it was evident that the objectors were thinking chiefly of individual pieces of property, not of a large district, or of the city as a whole. At one meeting the real estate men were referred to as gamblers who are constantly taking a chance. One dealer declared that all restrictions are objectionable. Apparently he wishes to figure on the utmost price that may be derived from a given property in the immediate future and is comparatively uninterested in what may happen to it later, or what the effect of his proposed exploitation may be on neighboring properties or on the city as a whole. One of the leading operative builders has several times publicly stated that they are gamblers. . . .

"The Housing Association, which has to deal with the results of the gambles, believes, as a result of its experience, that it would be to the interest of all concerned—in the long run—if the element of gamble were reduced and the physical development of the city put upon a sound business basis. . . .

"We, therefore, hope that your committee, in studying the ordinance, will figure not on the basis of the immediate utmost development of an individual property, but on the basis of the permanent economic development of groups of properties, taking a square as the smallest unit in their calculations, and considering the square as an integral part of a district or neighborhood and the district or neighborhood as an intelgral part of the city. . . .

"We hope that your committee will project the development of an entire square on which there now stands one of our highest building and show:

First. The result if all the properties are covered to a similar height without any of the land being reserved for light and air-spaces.

Second. The result if all the properties are developed to a similar height, reserving 10 per cent. of unoccupied area.

It would be of practical value to the city to learn, after thorough studies as above outlined, if your committee believes it will be more profitable, as a continuing investment, not as a building proposition in which the uncertainties of the future are passed on to new owners, to

(*a*) Develop a whole square to the height of the highest building—say 300 feet—without reserving at least 10 per cent. for light and air.

(*b*) Develop a whole square to the suggested height of 150 feet with addition height permitted for setbacks, without reserving at least 10 per cent. for light and air.

(*c*) Develop a whole square to the suggested height of 150 feet, with setbacks reserving more than 10 per cent. for light and air.

That is, at what point in density of building will diminishing returns per square foot from office rental begin to overbalance the increased floor area? . . . .

"In this connection we hope that your committee will express an opinion on the effect of one very high office building, which meets all the contemporary demand for office space, in delaying the improvement of other properties now occupied by antiquated buildings. It is better to have an occasional skyscraper surrounded by antiquated buildings or to have a large number of lower office buildings? . . . .

"So far we have spoken only of effects within the building lines of squares or blocks. We hope that your committee will also consider the effect of building beyond the maximum heights suggested in the ordinance, upon street frontages and upon the streets themselves. If Walnut, Chestnut, 13th, 15th and neighboring streets were lined with 300-foot buildings, what would be the effect?

First. Upon the lighting of front offices on the lower floors.

Second. Upon traffic in the streets? The population of such buildings would be enormous.

Third. Upon the transit facilities?

Fourth. Upon sewers, water mains and other public services? . . . .

"Would such a dense population facilitate or hamper business? What would it cost the city to enlarge its public services? Could the city even handle adequately the task imposed? For example, could it in addition to laying sewers and mains, widen the streets? If so, what method of general street widening would your committee suggest? . . . .

"Our belief is that the best economic development from the investor's or long time point of view as opposed to a speculator's or short time point of view, will be the kind of development that will promote the social well-being of the people. We are, therefore, looking forward with great interest to the report of your committee."

* * *

RESOLUTIONS

Adopted by Joint Conference of the American Institute of Architects, the Engineering Council, and the Associated General Contractors at Chicago.

1. That any system of duplication of effort in estimating, wherein each bidder separately estimates the quantities should be condemned.

2. That all competitive bids should be based upon a detailed schedule of quantities prepared from a survey of the plans and specifications and submitted therewith, the cost of preparation of such survey of quantities should be born by the owner.

3. That while the owner should furnish a quantity survey as the basis of bids and contracts, and should submit them with the plans and specifications, and should pay for same, the bidders should make no charge to the owner for submitting the proposals based on said plans, specifications, and quantity survey.

4. That in general competitive bids should not be invited nor submitted on projects, the plans and specifications for which are not accompanied by a quantity survey, unless the owner agrees to pay a predetermined fee to each bidder for preparing the quantities and submitting an estimate.

5. This conference proposes to prepare and present at a later date an outline of recommended practice in conformity with the above resolution.

* * *

BUILDING WITH CLAY HOLLOW TILE.

By Warfield Webb.

Within the past few years there has been a noted increase in the use of clay hollow tile in construction work. This is awakening in the minds of a large number of builders and architects the merit that such material contains for all kinds of building. Aside from the important feature of fire resistance, clay hollow buildnig tile has other advantages that are vital. It is not essential to use skeleton steel construction in the erection of high building with clay hollow tile. Reinforced concrete columns and girders make the larger use of this material unneessary, and at the same time give the desired strength to the structure. Both architects and contractors, who are giving the matter any study see the advantages of this combination of material for structural purposes where

(Continued on Page 223.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Gowen and Stenton avenues, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Albert T. Bauerle, Commonwealth Building, Philadelphia. Stone, 2½ stories, 28x32 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Architect taking bids due March 20th. Hogg Const. Co., Denckla Building; Thomas C. Trafford, 1613 Sansom street, and E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia, are figuring.

Store and Dwelling, 517 East Girard avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Joseph E. Bausman, 542 East Girard avenue, Philadelphia. Brick, 2 stories, 20x80 feet, slag roof, hardwood floors, hot water heating, electric lighting, metal bulk. Plans in progress. Architect will be ready for bids in two weeks.

Sanitarium (alts.) to Apartment House, 1929-31 Wallace street. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, F. Hano, care of architect. General interior alterations. Plans in progress. Architect will be ready for bids in two weeks.

Factory (add.), Ontario and "C" streets, Philadelphia. Architect, A. James Stewart, 2526 North Orkney street, Philadelphia. Owner, Philadelphia Storage Battery Co., on premises. Reinforced concrete, 4 stories, 40x220 feet, slag roof, concrete and composition floors, stone foundations, steam heat, elevators, rolled steel sash, fire doors, iron stairs, iron work. Architect taking bids due March 20th. H. E. Baton, 1713 Sansom street; Hughes-Foulkrod Co., Commonwealth Building; Stewart Bros., 2526 North Orkney street, and Cramp & Co., Denckla Building, are figuring.

Hospital (Unit A), Eighteenth and Fitzwater streets, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, Children's Hospital, on premises. Brick, cut stone, concrete and steel, 4 stories, 62x57 feet, tile and slag roof, cement, oak and terrazzo floors, rolled steel sash, tile and marble work, iron work, metal lath, hollow tile, safety treads, waterproofing, dampproofing. Architects taking bids due March 23rd. Roydhouse-Arey Co., 112 North Broad street; William R. Dougherty, 1610 Sansom street; Irwin & Leighton, 126 North Twelfth street; Jacob Myers & Sons, Witherspoon Building; Frank E. Wallace, 1220 Chancellor street, and Cramp & Co., Denckla Building, Philadelphia, are figuring.

Moving Picture Theatre, Kensington avenue and Russell street, $60,000. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Jacob Korman, 960 East Tioga street, Philadelphia. Concrete, steel and brick, 1 story, irregular size, slag roof, stone foundations, steam heat, electric light, tile and marble work, kalamein doors, ornamental plastering, composition floors. Owner will build.

Residences (10), (4) Unruh and Oakley streets, (4) Rising Sun avenue and Bleigh streets, and (2) Levick and Bingham streets, $50,000. Architect, private plans. Owner, Benjamin Gersenstein, 1931 South Fifth street, Philadelphia. Brick, 2 stories, 14 feet 10 inches x46 feet, hot water heat. Owner will build.

Residence (alts. and add.) to Apartment House, 1806 Erie avenue. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Solomon E. Levy, care of architect. Brick, 2 or 3 story add., slag roof, hardwood floors, steam heating, electric work, plastering. Plans in progress.

Nurses' Home (alt. and add.), Broad and Wingohocking streets, Philadelphia. Architect, C. A. Ziegler, Bailey Building, Philadelphia. Owner, St. Luke's Hospital, on premises. Brick, 2d story add., 36x72 feet, slag roof, pine floors, steam heating, electric lighting, tile work, fire escapes, iron stairs, ornamental iron work. Architect taking bids due March 22nd. F. L. Davis, 240 North Sixteenth street; A. L. Fretz & Son, Heed Building; R. C. Ballinger & Co., 218 North Thirteenth street; E. Allen Reeves, Abington, Pa.; I. A. Dunkelberger, 71 East Herman street, and Robert E. Lamb Co., 843 North Nineteenth street, are figuring.

Store Building (alts.), Fifth and South streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Harry Krengle, Fifth and South streets, Philadelphia. Brick and steel, new front, repairs to roof, composition and pine floors, metal lath, dampproofing, stone foundations, tile work, hollow metal skylights and doors, iron work (heating, electric work and plumbing reserved). Architects taking bids due March 22nd.

Storage Building, River road, north of Packer street, $130,000. Architect, private plans. Owner, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Brick and concrete, 3 stories, 193½x96 feet. Owner will build.

Garages (10), 177 to 195 East Roosevelt Boulevard, $10,000. Architect, private plans. Owner, Robert D. Hamilton, 7012 North Twelfth street, Philadelphia. Brick, 1 story, 17 feet 8 inches x18½ feet, slag roof, cement floors. Owner will build.

Theatre (alts.), Ninth and Walnut streets, Philadelphia. Architects, Ritcher Lee Co., 32 South Seventeenth street, Philadelphia. Owner, James P. Beury, 3427 North Seventeenth street, Philadelphia. New building, excepting stage, composition roof, steam heating, electric lighting, tile and marble work, iron work. Plans in progress. Architect will be ready for bids in two weeks.

Residence (alts.) to Convalescent Home, Torresdale, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Federation Jewish Charities, Empire Building, Philadelphia. General alterations. Plans in progress.

Grand Stand, Northeast Corner Twenty-sixth and Reed streets, Philadelphia, $3,500. Engineers, Stuckert & Co., Crozer Building, Philadelphia. Timber and planking, concrete work. Engineers will build.

Warehouse, Nicetown, Philadelphia. Engineers, William Steele & Sons Co., Sixteenth and Arch streets, Philadelphia. Owner, G. W. Blabon & Co., Nicetown, Pa. Reinforced concrete, 3 stories, 158x85 feet, stone foundations. Engineers will be ready for bids in one week.

Factory, Ontario and I streets, Philadelphia. Engineers, William Steele & Sons Co., Sixteenth and Parkway, Philadelphia. Owner, Model Mills Co., Ontario and I streets, Philadelphia. Reinforced concrete and steel, 5 stories, 250x90 feet. Engineers will be ready for bids in two weeks.

Store (alts.), 833 South Second street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Harry Richman, on premises. Brick, new front, interior alterations, hardwood floors, steam heating, electric lighting. Owner has received bids.

Bridge, Forty-ninth street over P., B. & W. R. R., Fortieth Ward, Philadelphia. Engineer, private plans. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works ,care of Director John C. Winston, 416 City Hall. Brick, grading, paving and appurtenant work. Owners will advertise for new bids in the near future.

Factory (alts.), 303-05 Vine street, Philadelphia. Architect, Louis H. Rush, 34 South Seventeenth street, Philadelphia. Owner, Leas & McVitty, on premises. General alterations. Architect taking bids due March 18th. J. Sims Wilson Co., 1125 Brown street, and Joseph F. Myers, Jr., Co., 1237 Ridge avenue, are figuring.

Building (add.), Delaware avenue and Mifflin street, Philadelphia. Architect, private plans. Owners, David Berg Industrial Alcohol Co., on premises. Brick and steel, 2 stories, 24x18 feet, slag roof, pine floors, stone foundations (heating, electric work and plumbing reserved). Owners taking bids due as soon as possible. Smith-Hardican Co., 1606 Cherry street, and Lam Building Co., 1001 Wood street, are figuring.

Office Building, Broad and Spruce streets, Philadelphia. Architect, Cass Gilbert, 244 Madison avenue, New York City. Owners, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Architect taking bids due March 23rd. Cramp & Co., Denckla Building; Metzger & Fisher, Otis Building; Irwin & Leighton, 126 North Twelfth street, and John N. Gill & Co., Otis Building, Philadelphia; George A. Fuller Co., 949 Broadway; Thomp-



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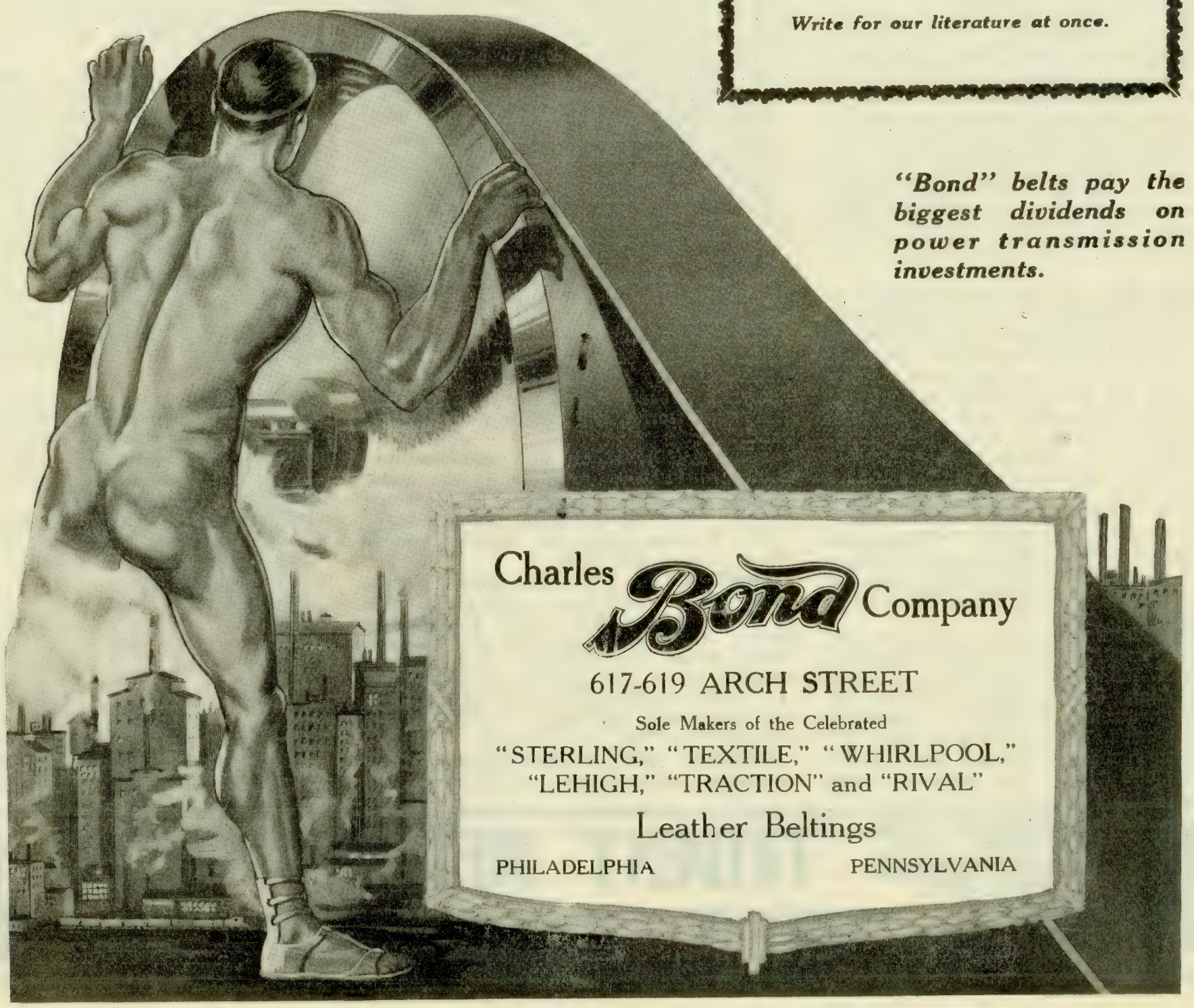
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son Starrett Co., 49 Wall street; James Stewart Co., 30 Church street, and Foundation Co., 233 Broadway, all of New York City, are figuring.

Restaurant, Southeast Corner Luzerne and N streets, Philadelphia, $34,000. Architect, private plans. Owner, L. Walther Mfg. Co., Torresdale avenue and N street. Brick, 1 story, 63 feet 8 inches x91 feet 8 inches. Contract awarded to George H. Thirsk, 4305 Horrocks street.

Shop (add.), 909 South Twenty-sixth street, Philadelphia, $5,000. Architect, private plans. Owner, M. A. Ferry, 2512 Gray's Ferry avenue, Philadelphia. Brick, 2 story add., 16x32 feet, slag roof. Contract awarded to Penn Const. & Eng. Co., Bulletin Building.

Storage Shed, Enclosure and Stable Alts., Ontario street, East of Bath street, Philadelphia, $4,500. Architect, private plans. Owner, The Berg Co., Ontario and Richmond streets, Philadelphia. Brick enclosure, elevator shaft alterations. Contract awarded to the Penn Const. & Eng. Co., Bulletin Building.

Residences (2) (alts. and add.) to Stores and Dwellings, 1118-20 North Fortieth street, Philadelphia, $4,000. Architect, private plans. Owner, B. Fisher, 3903 Poplar street, Philadelphia. Brick, 1 story, 16x6 feet, general alterations. Contract awarded to C. Shore, 405 Hoffman street, Philadelphia.

Residence and Store (alts.), 60 North Sixtieth street, $3,500. Architect, private plans. Owner, Charles Deems, 1202 North Fifty-second street, Philadelphia. General alterations, flush bulks. Contract awarded to S. A. Kevorkian, 5813 Spruce street.

Storage Building, River Road, Manayunk, Philadelphia, $33,000. Architect, private plans. Owners, Dill & Collins, Richmond and Tioga streets, Philadelphia. Brick, 3 stories, 108 feet 10 inches x31 feet. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Residence, Lakeside and West Chelten avenues, Oak Lane, Philadelphia, $14,000. Architects, Gamber & Albright, 214 East Johnson street, Germantown, Philadelphia. Owner, S. Henry Wright, 5 Asbury Terrace, Oak Lane, Philadelphia. Stone, 3 stories, 43x30 feet, slate and cement roof, oak floors, hot air heat, electric light, tile work. Contract awarded to Essick Const. Co., 1345 Arch street, Philadelphia.

Factory (add.), 224 Pine street, Philadelphia, $4,500. Architect, private plans. Owner, M. Kaederi, 701 Pine street, Philadelphia. Brick, 1 story add., 28x90 feet, slag roof. Contract awarded to Louis Solgonek, 604 Emily street, Philadelphia.

Garage, 744 North Holly street, Philadelphia, $2,500. Architect, private plans. Owner, John T. Rhoads, 4157 Lancaster avenue, Philadelphia. Brick, 1 story, 16x64 feet, cement floors, slag roof. Contract awarded to Charles Smith & Son, 4215 Haverford avenue.

Church, northwest corner of Sixty-third and Malvern avenue, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Overbrook Baptist Church, care of David K. Wood, 1618 North Robinson street, Philadelphia. Stone, 1 story, slate roof, stone foundations, steam heat, electric lighting. Plans in progress. Too early for details.

Dairy Building, Torresdale and Kensington avenues, Philadelphia. Architect, Wm. H. Timm, Perry Building, Philadelphia. Owners, Harbison Dairies, Front and Diamond streets, Philadelphia. Brick and concrete, 1 story, 80x140 feet, slag roof, cement floors. Plans in progress.

Garage, 617 West Hortter street, Germantown. Architect, Willis A. Hall, 524 Walnut street, Philadelphia. Owner, Eugene M. Kauf-

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mann, Front and Columbia avenue, Philadelphia. Stone, 1½ stories, 22½x30 feet, shingle roof, cement floors, electric lighting. Architect taking bids, due March 18th. George B. Clayton, 1819 North Twentieth street, Philadelphia, is figuring.

Garage (alts. and add.), 215 Fitzwater st., Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, John Goodwin, 215 Fitzwater street, Philadelphia. Brick, 2 stories, 36x90 feet, slag roof, cement and pine floors, steam heating, electric lighting, structural steel, hollow metal sash, millwork. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

School, Seventieth and Buist avenue, Philadelphia, $505,218. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut streets, Philadelphia. Brick and reinforced concrete, 3 stories and basement, 218x98 feet, concrete foundations, composition roof, cement floors, hollow tile, tile and marble work, rolled steel skylights, roof ventilators, iron work (heating, plumbing and electric work separate bids). Contract awarded to Wark & Co., 1737 Filbert street.

School, Ninth and Oregon avenue, Philadelphia, $499,979. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick and reinforced concerte, 3 stories and basement, 218x98 feet, concrete foundations, composition roof, cement floors, hollow tile, tile and marble work, rolled steel skylights, roof ventilators, iron work (heating, plumbing and electric work separate bids). Contract awarded to M. H. McCloskey, Jr., Inc., 1620 Thompson street.

School (alts.), York and Memphis streets, Philadelphia, $11,498. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Plastering, carpentry, mill work, painting, plumbing, heating, electric work. Contract awarded to Mitchell Bros., 2125 Race street.

Manufacturing Building, C and Venango streets, Philadelphia, $65,000. Architect, private plans. Owners, Franklin Worsted Co., Mascher and York streets, Philadelphia. Brick, 2 stories, 62 feet 4 inches x147 feet 8 inches, slag roof, steam heat, electric light, yellow pine floors, skylights. Contract awarded to George T. Thirsk, 4305 Horrocks street, Philadelphia.

Store and Office (alt. and add.), 1638-40-42 Market street, $5,800. Architect, private plans. Owner, Daniel Dever, 1636 Market street, Philadelphia. Brick, third story add., 40x120 feet, general alterations. Contract awarded to John Welsh, 221 North Seventeenth street, Philadelphia.

Store and Storage Building, Front and Diamond streets, $3,700. Architect, private plans. Owner, G. Newman, on premises. General alterations. Contract awarded to Sam

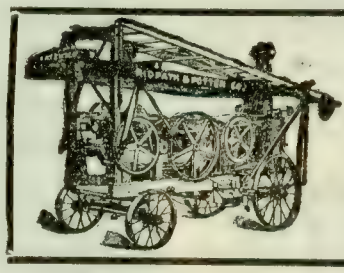


Painting Prices

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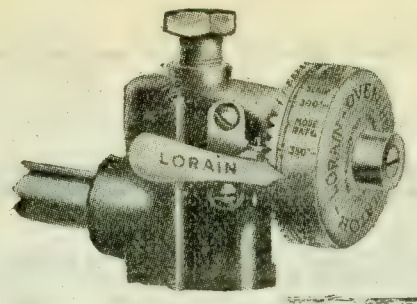


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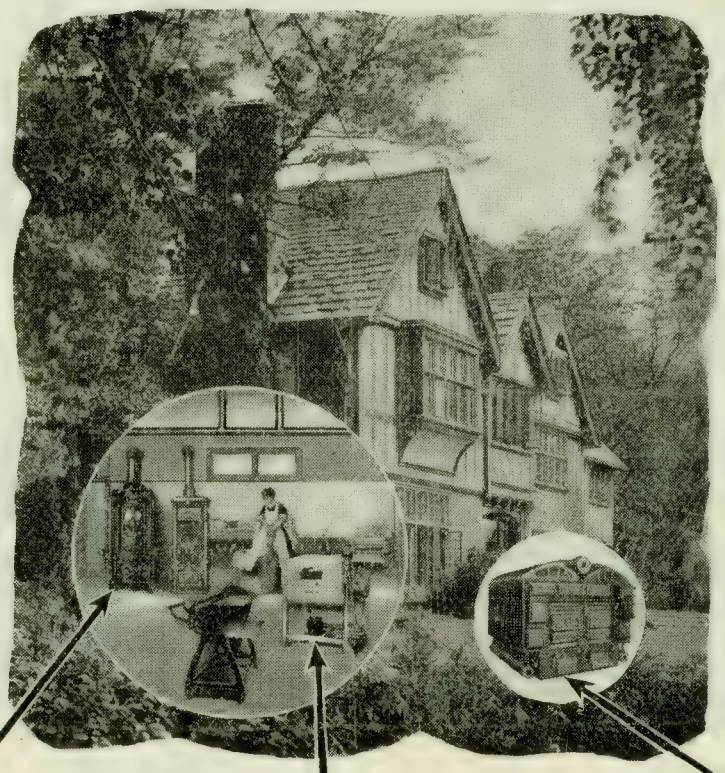
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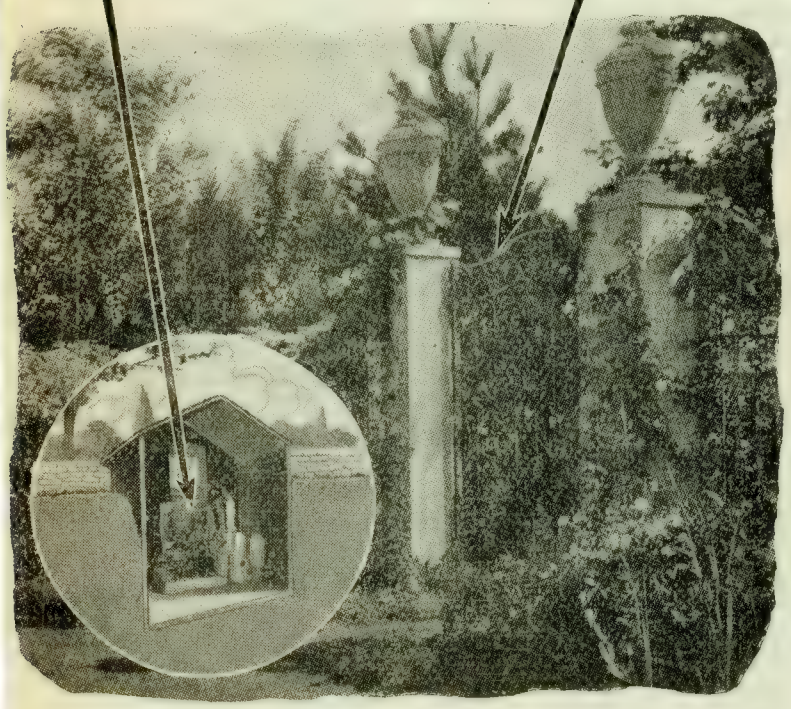
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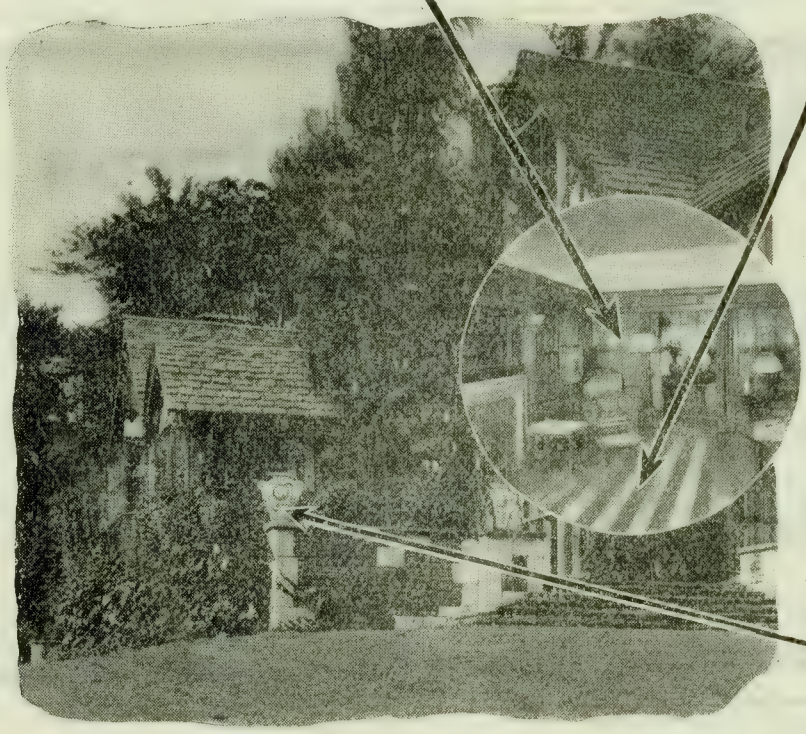
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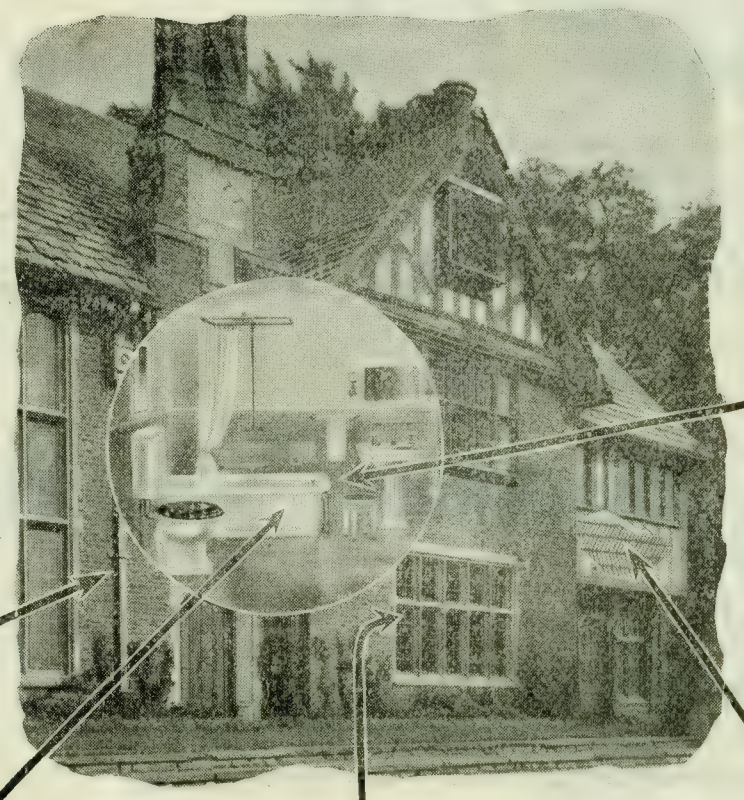


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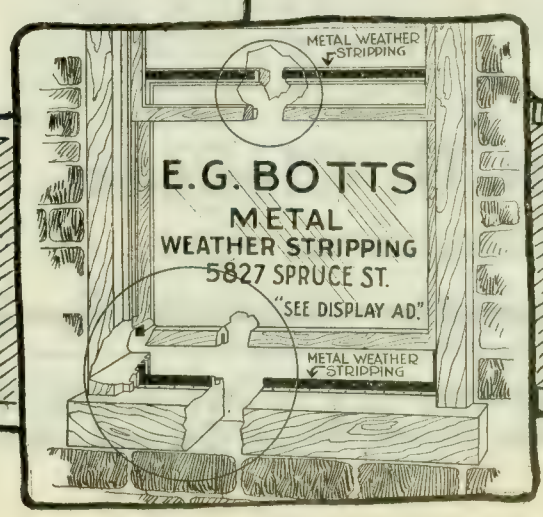




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Lazarus, 5120 Olive street, Philadelphia.

Factory, Dye and Dry House, Janney and Clearfield streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owners, John Blook & Bro., Trenton and Allegheny avenues, Philadelphia. Brick, steel and concrete, 3 stories, 43x118 feet, 2 stories, 42x66 feet (and 2 12,000-gallon cedar tanks, steel supports), Johns Manville roof, 3-inch plank floors, metal lath, plastering, electric elevators, steam heating, electric lighting, plumbing, mill work, fire doors. General contract awarded to George Byers, 1747 Foulkrod street, Frankford. Architects are taking sub-bids.

Factory, Allegheny avenue, East of Twenty-second street, Philadelphia, $65,000. Architect, private plans. Owners, Pabst Company, 141 North Twelfth street, Philadelphia. Brick, 4 stories, 68½x165 feet, slag roof, steam heating, electric lighting, pine and cement floors, rolled steel sash, elevator. Contract awarded to George A. Glenn, 1507 Arch street, Philadelphia.

Store Building (alts. and add.), Eighth and Luzerne streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Furman & Furman, Eighth and Luzerne streets, Philadelphia. Brick, 2 stories, 9x15 feet add., tin roof, pine floors, electric lighting, general alterations. Contract awarded to Harry Murphy, Willow Grove, Pa.

Factory, Northwest Corner Ninth and Westmoreland streets, Philadelphia, $5,000. Architect, private plans. Owners, Surpass Leather Co., on premises. Brick, 1 story, 20½x28½ feet, slag roof, cement floor. Contract awarded to Geo. Kessler Cont. Co., Drexel Building, Philadelphia.

Dye House (alts.), 2023 Amber street, Philadelphia, $5,000. Architect, private plans. Owners, S. & M. Dye Works, Richmond and Schiller streets, Philadelphia. General alterations. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Storage Shed, Northwest Corner Thirty-second and Arch streets, Philadelphia, $6,000. Architect, private plans. Owners, H. T. Paiste Co., Thirty-second and Arch streets, Philadelphia. Brick, 1 story, 38x71 feet, slag roof. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

Garage and Store (add.), East side of Ninth street, South of Cayuga street, $3,500. Architect, private plans. Owners, William Weyant, Jr., on premises. Brick, 1 story, 16x100 feet. Contract awarded to Fred C. Hoehn & Son, 3723 North Randolph street, Philadelphia.

Garage, Swanson and Fitzwater streets, Philadelphia. Architects, private plans. Owners, Pennsylvania Warehouse & Safe Deposit Co., 113 South Third street. Brick, 1 story, 143x68 feet, wings 52x56 feet and 36x79 feet, slag roof, cement floors, hollow tile, stone foundations, rolled steel sash, iron work (electric work and heating reserved). Contract awarded to Robert E. Lamb & Co., 843 North Nineteenth street, Philadelphia.

Store (alts.), 942 Market street, Philadelphia, $12,000. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Store Co., Phila. Masonry, carpentry, tile and marble work, plastering, metal work, plumbing, painting, metal ceilings (electric work, mill work, kalamein doors, store fixtures and glazing reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Residence (int. alts.), 151 Maplewood ave-

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nue, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, name withheld. Brick and tile work, mill work, plumbing, painting, repairs to roof, general interior alterations. Contract awarded to Wolverton & Co., 28 East Willow Grove avenue.

Store (alts. and add.), 39 North Thirteenth street, Philadelphia. Architect, E. L. Rothschild, 1011 Chestnut street, Philadelphia. Owners, M. Simon & Co., on premises. Alterations to heating and lighting, fixtures, parquetry floors, cabinet work, hollow metal skylights, flush bulks, window guards, new balcony, ornamental plastering, floor and wall cases. Contract awarded to Geo. W. Thayer, 1233 Ludlow street, Philadelphia.

Store and Dwelling (alts. and add.), 327 West Girard avenue, Philadelphia, $3,000. Architect, private plans. Owner, L. Goodwin, Fifty-eighth and Spruce streets, Philadelphia. Brick, 2 stories, 13x29 feet, electric lighting. Contract awarded to I. Bankoff, 432 Cantrell street, Philadelphia.

Store Building, 1016 Race street, Philadelphia. Architect, Le Roy B. Rithschild, 1225 Sansom street, Philadelphia. Owner, William Goldstein, Real Estate Trust Building, Philadelphia. Bids received under owner, Robert Patrick. Brick, 1 story, 42x170 feet, stone foundations, slag roof, maple floors, steam heating, electric lighting, metal lath, rolled steel skylights. Contract awarded to D. Henwood, 717 North Sixty-third street, Philadelphia.

Residence and Garage, Monument avenue, south of Wynnefield avenue, $30,000. Architect, private plans. Owner, Mrs. Richard Kaelker, 964 North Eighth street, Philadelphia. Brick, 3 stories, 48x26 feet, wing 18½ x23 feet, and hollow tile and plaster, 2 stories, 43½x25 feet, oak, pine and cement floors, hot water heating, electric lighting, metal lath. Contract awarded to Charles H. Dading, Bellevue Court Building, Philadelphia.

Dwelling and Office (add.), 1415 North Fifteenth street, Philadelphia, $8,000. Owner, Dr. Alex. Cornish, 1909 North Eighth street, Philadelphia. Brick, side addition, 1 story, 7x24 feet, and rear addition, 2 stories, 11½x 15 feet, slag roof, hot water heat, electric lighting, pine floors. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia.

Garage, Sixty-third street, south of Malvern avenue, $3,000. Architect, private plans. Owner, Joseph J. Bailey, 1522 North Sixty-third street, Philadelphia. Brick, 1 story, 28x 18 feet, slag roof, cement floors, electric lighting. Contract awarded to H. F. Dinkelacker, 1612 McKean street, Philadelphia.

Store (alts.), 712-14 Sansom street, Philadelphia. Architects, Greisler-Abramson Co., Lafayette Building, Philadelphia. Owners, Aisenstein & Gordon, 712 Sansom street, Philadelphia. Brick, steel and concrete, 4 stories, 36x100 feet, slag roof, pine floors (steam heating and electric light separate bids), tile and marble work, hollow tile, metal lath, new front, plate glass, fire doors. Contract awarded to George H. Evans, 45 North Thirteenth street, Philadelphia.

PENNSYLVANIA
Construction News

Receiving House, Marcus Hook, Pa. Architect, private plans. Owners, Sun Company, Finance Building, Philadelphia. Brick and steel, 1 story, 60x18 feet, slag roof, concrete floors, stone foundations, rolled steel sash, kalamein doors, iron stairs and iron work. Owners taking bids due as soon as possible. Barclay White & Co., 1713 Sansom street, are figuring.

Residence, Haverford, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owners, Williams & Doran, care of architects. Hollow tile and stucco, 2½ stories, 21x48 feet, slate roof, oak and pine floors, hollow tile, metal lath, ornamental iron work, stone foundations, vapor heating, electric lighting, tile work. Architects have received preliminary bid.

Residence (alts.), Haverford, Pa. Architects, Edward & Baker, 1012 Walnut street, Philadelphia. Owner, Winthrop Sargent, Jr., Haverford Pa. Stone, 2½ stories, general alterations, hardwood floors. Plans in progress.

Garage, Norristown, Pa. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owner, E. M. Evans, Norristown, Pa. Brick, 1 story, 22x24 feet, tile roof, cement floor, stone foundations, hot water heating, electric lighting. Architect has received bids.

Residence, Clifton avenue, Sharon Hill, Pa. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Mrs. Georgie Pierce, Folsom, care of architects. Hollow tile and plaster, 2½ stories, 28x42 feet, shingle roof, oak floors, metal lath, stone foundations, warm air heat, electric light, tile work, iron work. Architects taking bids from M. H. McCloskey, Jr., Inc., 1620 Thompson street, Philadelphia.

Factory, Bridgeport, Pa. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owner, name withheld. Reinforced concrete and brick, 2 stories, 60x125 feet, slag roof, maple and cement floors, steam heat, electric light, rolled steel sash, hollow metal skylights, fire doors, (1) elevator. Plans in progress.

Hotel (alts.) to Restaurant, Norristown, Pa., $5,000. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owner, name withheld. Mill work, composition or maple floors, minor interior alterations. Plans in progress.

Industrial Plant, Lewistown Junction, Pa. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Viscose Co., Marcus Hook, Pa. Brick, steel and terra cotta, one-half size of Marcus Hook Plant. Architects will be ready for sub-bids in a few days.

Men's Infirmary, Women's Infirmary, Administration Building, Eaglesville, Pa. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Eaglesville Sanitorium of Consumptives, Jerome H. Louchheim, secretary of Building Committee, Franklin Bank Building, Philadelphia. Weatherboard and shingle, 2½ stories, 140x55 feet, shingle roof, tile floors, stone foundations, steam heating, electric lighting, tile and marble work, hospital equipment. Plans in progress. Will be ready for bids in about three weeks.



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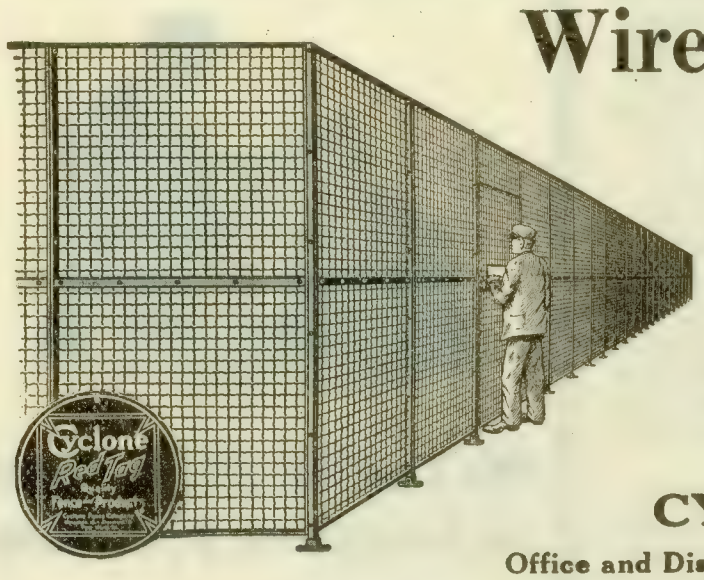
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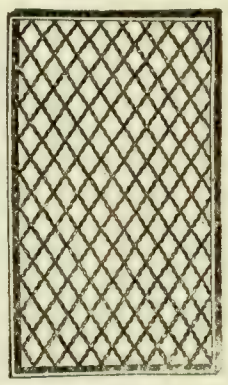


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Residence and Garage, Drexel Hill, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Charles K. Johnson, 2510 North Fifth street, Philadelphia. Stone, 2½ stories and 1½ stories, 37x44 feet and 15x24 feet, shingle roof, oak, pine and cement floors, stone foundations, vapor heating, electric lighting. Architect taking bids due March 19th. Bowden Const. Co., 1713 Sansom street; Harry Smink, 5320 North Twelfth street; James R. Booth, Lansdowne, Pa.; R. E. Bickel, Lansdowne, Pa.; J. Howard Roberts, Lansdowne, Pa.; Charles T. Moore, Lansdowne, Pa.; John McShain, 1610 North street, are figuring.

Residence (alts.), Camp Hill, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, Mrs. R. M. Cadwallader, Jr., Camp Hill, Pa. Interior alterations, cabinet work, painting. Architects are ready for sub-bids.

Business Building (alts.) to Recreation Center, West Market street, York, Pa. Architect, Edw. Leber, Hay Building, York, Pa. Owner, Vigilant Steam & Chemical Fire & Eng. Co., No. 1, York, Pa. General interior alterations, pine floors, tile and marble work. Plans in progress.

Bungalow, McClelland Heights, York, Pa. Architects, Gemmel & Billmeyer, Rossmiller Building, York, Pa. Owner, William Plut, Jackson street, York, Pa. Stucco, 1½ stories, 26x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for bids.

Residence (add. and alts.) to Apartment, 35 North Queen street, York. Architects, Gemmel & Billmeyer, Rossmiller Building, York, Pa. Owner, J. T. Ziegler, 207 West Market street, York, Pa. Brick, 3 stories, 22x85 feet, asphalt shingle roof, hardwood floors, steam heat, electric light, tile work, interior alterations. Architect ready for bids.

Residence, College Park, Frederick, Md. Architect, Edw. Leber, Hay Building, York, Pa. Owner, Berkeley Wards, Frederick, Md. Hollow tile, 2½ stories, 50x35 feet, concrete foundations, slate roof, hardwood floors, vapor heat, electric light, tile work, three baths. Owner will take sub-bids.

Garage, York, Pa. Architect, Edw. Leber, May Building, York, Pa. Owner, George Pfaltzgraff, West York Borough, Pa. Brick and frame, 1 story, 67x93 feet, concrete foundations, slag roof, cement floors, electric light. Owner ready for sub-bids.

Residences (40), York, Pa. Architects, Gemmel & Billmeyer, Rossmiller Building, York, Pa. Owner, York Home Building Exchange, care of Max Grumbacher, York, Pa. Brick and stucco, 2 stories, pine floors, hot air heating, electric lighting. Architect taking bids. Hess Bros., S. F. Gladfelter, I. Reindollar, J. L. Menough, George Gilbert and Calvin Boyer & Son, all of York, Pa., are figuring.

Printing Plant, Shamokin, Pa. Architects, Ritcher Lee Co., 32 South Seventeenth street, Philadelphia. Owner, T. J. Shoener, Shamokin, Pa. Brick and steel, 1 story, 57x90 feet, composition roof, maple floors, steam heating, electric lighting, rolled steel sash, incinerator. Plans completed. Architects ready for bids.

Hotel (alts.) to Department Store, Shamokin, Pa. Architects, Ritcher Lee Co., 32 South Seventeenth street, Philadelphia. Owner, Progressive Commercial Corp., 3032 Richmond street, Philadelphia. Brick, 3 stories, steam heating, electric lighting, tile and marble work, flush bulks, elevators, maple floors. Architects taking bids due as soon as possible. East End Lumber Co., Shamokin Lumber Co., and Reitz Bros., all of Shamokin, Pa., are figuring.

Church and Sunday School (alts. and add.), Bethlehem, Pa. Architects, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, North Side Presbyterian Church, Bethlehem, Pa. Brick, 1 story and basement, 80x60 feet, slate and slag roof, pine floors, iron work, plastering, hardware, mill work, painting, glazing (heating, electric work and plumbing reserved). Owner taking bids due March 18th. Tilghman & Moyer, Allentown, Pa.; Ochs Const. Co., Allentown, Pa.; R. S. Rathbun Cont. Co., Bethlehem, Pa.; George N. Heller, Bethlehem, Pa.; F. L. Froman, Bethlehem, Pa., and H. E. Stoudt & Son, Bethlehem, Pa., are figuring.

Garage, Shamokin, Pa. Architects, Ritcher Lee Co., 32 South Seventeenth street, Philadelphia. Owner, A. H. Kirschner, Shamokin, Pa. Brick, steel and concrete, 3 stories, 30x90 feet, composition roof, concrete floors, steam heat, electric light, rolled steel sash. East End Lumber Co., Shamokin, Pa., will build and is taking sub-bids.

Building, Reading, Pa. Owners, Reading Iron Works, Reading, Pa. Brick and structural steel, 1 story, 64x77 feet, concrete floors, concrete foundations, electric lighting, rolled

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steel sash, steel stairs, waterproofing, asphalt and gravel roof. Ownrs taking bids.

Mill (alts. and add.), Schuylkill Haven, Pa. Architect, Calvin Young, 520 Washington street, Reading, Pa. Owner, Keiser Mfg. Co. of New York, care of Mr. Hoffman, Schuylkill Haven, Pa. Mill construction, 3 stories, 26x40x110 feet, slag roof, plank floors, electric light, metal lath, elevators, hollow metal sash and skylights, roof ventilators. Plans in progress.

Residence and Garage, Madison and Washington streets, Reading, Pa. Architect, Calvin Young, 520 Washington street, Reading, Pa. Owners, Central Taxi Cab Company, care of C. A. Sheidy, Reading, Pa. Reinforced concrete, 2 and 3 stories, 45x90 feet, slag roof, concrete and yellow pine floors, hot water heat, electric light, rolled steel sash, hollow metal skylights, fire doors, metal lath, elevators, roof ventilators, metal weatherstrip. Plans in progress. Architect ready for bids.

Apartment House and Garage, South Fifth street, Reading, Pa. Architect, Calvin Young, 520 Washington street, Reading, Pa. Owner, Berks Auto Ignition Co., Cherry street, near Sixth, Reading, Pa. Reinforced concrete, 3 stories, 40x230 feet, stone foundations, slag roof, concrete floors, hot water heat, electric light, tile work, elevators, hollow metal sash and skylights, roof ventilators, dampproofing, fire escapes. Architect taking bids due March 18th. L. H. Focht & Son and Beard Const. Co., both of Reading, Pa., are figuring.

Apartment (alt. and add.), Penn street, Reading, Pa., $70,000. Architect, D. Smith, Sixth and Court streets, Reading, Pa. Owner, Kissinger & Farmers' Market Co., care of A. M. Kissinger, 826 Penn street, Reading, Pa. Brick. Too early for details.

Village Development, Hospital, Church, Schools and Houses, location withheld, $3,000,000. Architect, Calvin Young, 520 Washington street, Reading, Pa. Owners, Knights of Friendship, care of Mr. Coelm, Reading, Pa. Work contemplated.

Factory and Office Buildings, Reading, Pa. Architect, Wayne M. High, 10 North Fifth street, Reading, Pa. Owner, Schwartz Motor Truck Co., care of H. B. Schwartz Co., Reading, Pa. Brick and steel, 1 and 2 stories, 90x450 feet, office 50x100 feet, concrete foundations, concrete floors, electric light, metal lath, hollow metal sash, fire doors, vaults. Sketches in progress.

Apartment, Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, name withheld. Brick and reinforced steel, 6 stories, 30x150 feet. Preliminary plans in progress.

Residence, Manheim, Pa. Architect, Calvin Young, 520 Washintgon street, Reading, Pa. Owner, Mr. Fisher, 900 Franklin street, Reading, Pa. Stucco, 1½ stories, 30x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Pottsville, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, E. I. James, Pottsville, Pa. Hollow tile, stucco, 3 stories, 40x65 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect ready for bide.

Garage, Cedar and Court streets, Reading, Pa. Architect, Calvin Young, 520 Washington street, Reading, Pa. Owner, Merchants' Auto Service Co., care of Mr. Bowman, 424 Court street, Reading, Pa. Reinforced concrete, 3 stories, 90x115 feet, concrete foundations, slag roof, cement and wood floors, steam heat, electric light, rolled steel sash and skylights, fire doors, elevators. Architect will take bids in 10 days.

Bungalow, Robinson Hill, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, H. M. Jenkins, Hodge Apartments, Reading, Pa. Hollow tile and stucco, 1 story, 40x40 feet, shingle roof, hardwood floors, pipeless heater, electric light, tile work. Owner will sublet.

Bank (alts. and add.), North Wales, Pa. Architect, Edwin G. Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, North Wales National Bank, North Wales, Pa. Stone, 2 story add., 23x27 feet, slate roof, pine floors, concrete vault, heating and lighting extensions. Plans in progress.

Theatre Building, Windbur, Somerset County, Pa. Architects, Henry L. Reinhold and Ralph A. Land, 1513 Walnut street, Philadelphia. Owner, Windbur Corporation, Windbur, Pa. Brick, 2 stories, 500x200 feet, slag roof, composition floors, stone foundations, steam heating, electric lighting, tile, marble and terrazzo work, ventilating system. Revised plans about completed. Architects will be ready for new bids in about two weeks.

Boiler House Add. (High School), Ardmore, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Lower Merion Township School Board, Ardmore, Pa. Stone and brick, 1 story, 14x24 feet, Johns Manville roof, cement floors, safety treads, stone foundations, steam heat, electric light, iron work. Owners taking bid due March 22nd from H. E. Grau Co., 1709 Sansom street, Philadelphia.

Temperance House (alts. and repairs), Washington Crossing, Pa. Architect, E. D. Salter, Parkside and Wynnefield avenues, Philadelphia. Owners, Washington Crossing Park Commissioners, Washington Crossing, Pa. Mill work, brick work, plastering, slate roof, tin roof (repairs), vapor heating, electric lighting, plumbing, water supply equipment, concrete work. Plans completed.

Hotel (alts. and add.), 327 Market street, Harrisburgh, Pa., $90,000. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, A. Belehas, on premises. Brick and steel, 5 stories, 26x210 feet, concrete foundations, hardwood floors, steam heating, electric lighting, tile and marble work, roof ventilators. Owners will be ready for bids March 16th.

Garage, Eleventh and Market streets, Harrisburg, Pa. Architects, Markley & Starr, Spooner Building, Harrisburg, Pa. Owners, Conover & Wolf, 13 Howard street, Harrisburg, Pa. Brick, concrete, 2 stories, 67x110 feet, L shape, concrete foundations, slag roof, reinforced concrete floors, steam heating, electric lighting, rolled steel sash, gasoline storage system. Owner will take sub-bids.

Apartment, Hershey, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Christian Garman, Hershey, Pa. Brick,

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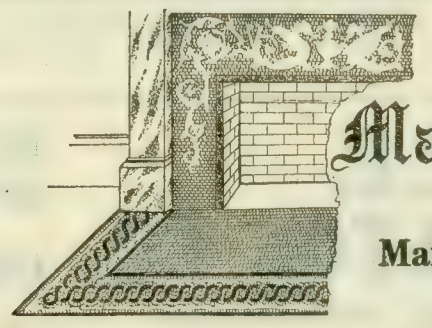
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3 stories, 46x70 feet, stone foundations, slate roof, pine floors, pipeless heater, electric lighting. Owner will build.

Apartment, Front and Boas streets, Harrisburg, Pa. Architect, C. H. Kain, 317 Chestnut street, Harrisburg, Pa. Owner, F. C. Peace, Fourth and Kelker streets, Harrisburg, Pa. Brick, steel and concrete, 10 stories. Too early for details.

Residence (alts. and add.), 251 East Chestnut street, Lancaster, Pa. Architect, J. B. Harman, 48 East Queen street, Lancaster, Pa. Owner, Dr. Grant, 251 East Chestnut street, Lancaster, Pa. New plumbing, interior alterations, hot water heat, electric light, white pine floors. Plans in progress.

Bungalows (50) Twenty-third and Berry streets, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, D. A. Caley, Kunkle Building, Harrisburg, Pa. Brick, stone, frame, 1½ stories, various sizes, hardwood floors, hot water heat, electric light. Plans in progress.

Church, Carlisle, Pa. Architects, Markley & Starr, Spooner Building, Harrisburg, Pa. Owners, U. B. Church, Rev. F. W. Plummer, Carlisle, Pa. Brick and stone, 1 story and basement, 90x120 feet, stone foundations, tin roof, wood floors, steam heat, electric light, hollow metal sash, roof ventilators. Architect will be ready for bids next week, due March 26th.

School (add.), Fifth and Montague streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, care of D. Hammelbank, Harrisburg, Pa. Brick and reinforced concrete, 3 stories, 2 wings, slag roof, hardwood floors, electric light, roof ventilators. Owners will be ready for bids in one week.

Chapel, Wisconesco and Lexington streets, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner's name withheld. Stone, plaster, 1 story and basement, 40x60 feet, stone foundations, slate roof, wood floors, hot air heating, electric lighting. Architect taking revised bids, due March 2nd. J. F. Saussman, H. A. Hipple, and Wm. Bushey, all of Harrisburgh, Pa., are figuring.

Columbus Home, Market and Orange sts., Lancaster, Pa. Architect, J. B. Harman, 48 North Queen street, Lancaster, Pa. Owners, Knights of Columbus, care of E. W. Guilford, 263 Wheatland avenue, Lancaster, Pa. Brick, 2 stories, 40x87 feet, concrete foundations, Carey roof, maple floors, bi-loop heating, electric lighting, mastic floors, hollow metal skylights, roof ventilators. Owner will be ready for bids April 1st.

Garage, Annville, Pa. Architect, C. M. Urban, Woolworth Building, Lancaster, Pa. Owner, A. S. Kreider, on premises. Stucco and brick, 1 and 2 stories, 83x48 feet, stone foundations, tile roof, cement floors, hot water heat, electric light, conservatory outfit, laundry equipment, gasoline storage system. Owners is taking bids, due as soon as possible.

Power House, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, St. Joseph's Hospital, care of Sisters of St. Joseph, Lancaster, Pa. Concrete and steel, 1 story, 30x40 feet, reinforced concrete roof. Architect taking bids, due March 18th. F. Bachman, J. P. Breneman, H. L. Wiant, W. Zook and Mr. Fleck, all of Lancaster, Pa., are figuring.

Residences and Garages (3), Wynnefield, Pa. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner's name withheld. Stone, 2½ and 1 story, 40x32 feet, slate roof, hardwood floors, cement work, stone foundations, hot water heating, electric light, tile and marble work. Architects taking bids, due March 16th. Lam Building Co., 1001 Wood street, Philadelphia, only bidder.

Pennsylvania Contracts Awarded

Residence (alts. and add.), Whitemarsh, Pa., $10,000. Architect, John Graham, Jr., 130 South Fifteenth street, Philadelphia. Owner, Llynford Biddle, Whitemarsh, Pa. Frame, add. 12x20 feet, and general interior alterations, mill work, hardwood flooring. Contract awarded to Fred Elvidge & Son, 5522 Germantown avenue.

Ore Yard, Coatesville, Pa., $300,000. Architect, private plans. Owners, Midvale Steel Co., Coatesville, Pa. Structural steel, 360x180 feet, concrete foundations. Contract awarded to Irwin & Leighton, 126 South Twelfth street, Philadelphia.

Club House (alts.), Second street, Harrisburg, Pa. Architects, Markley & Starr, Spooner Building, Harrisburg, Pa. Owners, Republican Club, care of J. C. Coover, Second street, Harrisburg, Pa. General interior alterations, tile walls, plumbing, tile work, kitchen, hollow metal skylight, tile floors. Contract awarded to H. W. Gettys, Harrisburg, Pa.

Residences (4), Second street, Harrisburg, Pa. Architect, C. H. Kain, 317 Chestnut st., Harrisburg, Pa. Owner, Dr. C. L. Weight, Third street, Harrisburg, Pa. Brick and stucco, 2 stories, 30x45 feet, concrete foundations, slate roof, hardwood floors, steam heating, electric lighting, tile work. Contract awarded to M. G. Sollenberger, Harrisburg, Pa.

Residence (alts.) to Apartment and Stores (add.), Sixth and Emerald streets, Harrisburg, Pa. Architects, Markley & Starr, Spooner Building, Harrisburg, Pa. Owner, Mrs. J. W. Peters, on premises. Brick, 3 stories, 18x70 feet, stone foundations, composition floors, hardwood floors, steam heat, electric light, tile work, general interior alterations, plate glass. Contract awarded to Harold A. Hipple, Harrisburg, Pa.

Residence (alts.) to Apartment, West Chestnut street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, H. L. Raub, East King street, Lancaster, Pa. Brick, interior and exterior alterations, tin roof, hardwood floors, electric lighting, tile and marble work. Contract

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awarded to F. Bachman, Woolworth Building, Lancaster, Pa.

Factory, Cedar Grove, Pa. Architect, private plans. Owner, F. J. Stokes, Cedar Grove, Pa. Brick, 1 story, 91x160 feet, slag roof, cement and pine floors, stone foundations, iron work. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

New Jersey Construction News

Nurses' Cottage, Atlantic Co., N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owner, Board of Chosen Freeholders, care of F. F. Doughty, Absecon, N. J. Frame, 2 stories, 34x52 feet, brick foundations, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owners taking bids. Summers S. Stillman, P. G. Hannum and N. W. Young, Atlantic City, N. J.; Charles Corsin and William Sharrock, Lynwood, N. J., and J. Yates, Pleasantville, N. J., are figuring.

Bank, Absecon, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owner, First National Bank, care of William B. Babcock, president, Absecon, N. J. Stone, brick, terra cotta, 1 story, 24x45 feet, concrete foundations, slag roof, tile and hardwood floors, steam heat, electric light, tile work, vault. Architect has received bids.

Restaurant (alts.), 1012 Atlantic avenue, Atlantic City, N. J. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City, N. J. Owner, Extra Dry Cafe, on premises. New front, general interior alterations, tile floors. Architect has received bids.

Garage, 213 North Vermont avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, J. J. Nesbitt, on premises. Brick, 2 stories, 90x50 feet, concrete foundations, slag roof, concrete floors, steam heat, electric light. Plans completed. Owner will take sub-bids.

Cottage, Annapolis and Ventnor avenues, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, P. G. Hannum, 16 North Georgia avenue, Atlantic City, N. J. Frame, 3 stories, 24x40 feet, asphalt shingle roof, hardwood floors, pipeless heat, electric light, tile work. Owner will build.

Office Building, Fourth and Market streets, Camden, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, name withheld. Brick, 3 stories, 21x96 feet, slag roof, steam heating, electric lighting. Plans in progress.

Bank, Elmer, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, First National Bank, Elmer, N. J. Stone, 2 stories, 30x32 feet, slag roof, stone foundations, steam heating, electric lighting, tile work, mill work, metal window guards. Plans in progress.

Office and Shipping Building, Jersey City, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, William M. Crane Co., Jersey City, N. J. Reinforced concrete and steel, 1 and 2 stories, 100x250 feet, slag roof, cement floors, electric lighting, steam heating, plumbing, rolled steel sash and skylights, wood and kalamein doors. Architects ready for sub-bids at New York office, 328 Broadway.

Store (add.), Mt. Holly, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, H. Krupnick, Mt. Holly, N. J. Brick, 3 stories, metal bulk, plate glass, tile and marble work, electric work, hardwood floors, slag roof. Owners taking bids. Lam Building Co., 1001 Wood street, Philadelphia, is figuring.

Factory, Glassboro, N. J. Architects, The E. Wm. Kohl Co., 524 Walnut street, Philadelphia. Owners, Argonne Shirt Co., 1214 Arch street, Philadelphia. Brick and hollow tile, 1 story, 114x49½ feet, slag roof, cement floors, hollow tile, concrete foundations, steam heat, electric lighting, rolled steel sash, iron work. Architects taking bids, due March 18th. Geo. B. Clayton, 1819 North Twentieth street, and J. S. Rogers Co., Drexel Building, Philadelphia, are figuring.

Moving Picture Theatre, Broad and Warren streets, Trenton, N. J. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Co. of America, care of Lewis Sablosky, vice-president, 1214 Market street, Philadelphia. Brick, concrete and steel. Preliminary plans in progress.

New Jersey Contracts Awarded

Houses (4), Ventnor, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owner, Sarah H. Fullon, care of architect. Frame, 2 stories, 24x24 feet, asphalt shingle roof, pine floors, hot water heat, electric light, tile work. Contract awarded to J. V. Mathis & Son, Atlantic City, N. J.

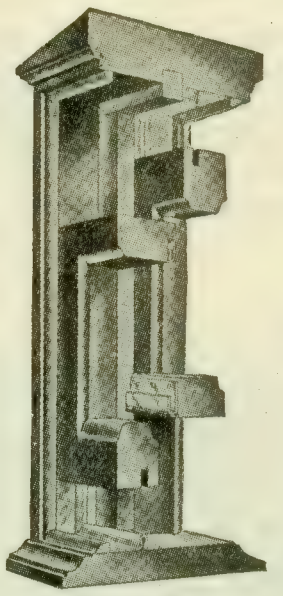
Garage, Maryland avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick, 1 story, 50x175 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Max Dolinsky, Atlantic City, N. J.

House, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, Mrs. W. E. Stone, care of architect. Hollow tile, 2 stories and basement, 38x40 feet, asbestos shingle roof, pine floors, pipeless heater, electric light. Contract awarded to Morell Bowen, 103 South Newark avenue, Ventnor, N. J.

New Office and Store Room and Balcony Floor, Delaware avenue and Pearl street, Camden, N. J. Architect, private plans. Owners, Concrete Steel Co., on premises. Timber, yellow pine flooring in 7 bays, 112x25 feet and 4 bays, 64x25 feet. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Miscellaneous Construction News

Bank Building, Tenth and Shipley streets, Wilmington, Del. Architects, Charles H. Mills, Wilmington, Del., and William E. Haugaard, 185 Madison avenue, New York City. Owner, Industrial Bank Building, Wilmington, Del. Brick, stone and terra cotta, 7 stories, 36x78 feet, slag roof, pine, tile and terrazzo floors, marble work, roof ventilators. Architects taking bids. William R. Dougherty, 1610 Sansom street; Irwin & Leighton, 126 North Twelfth street, and Standard Const.



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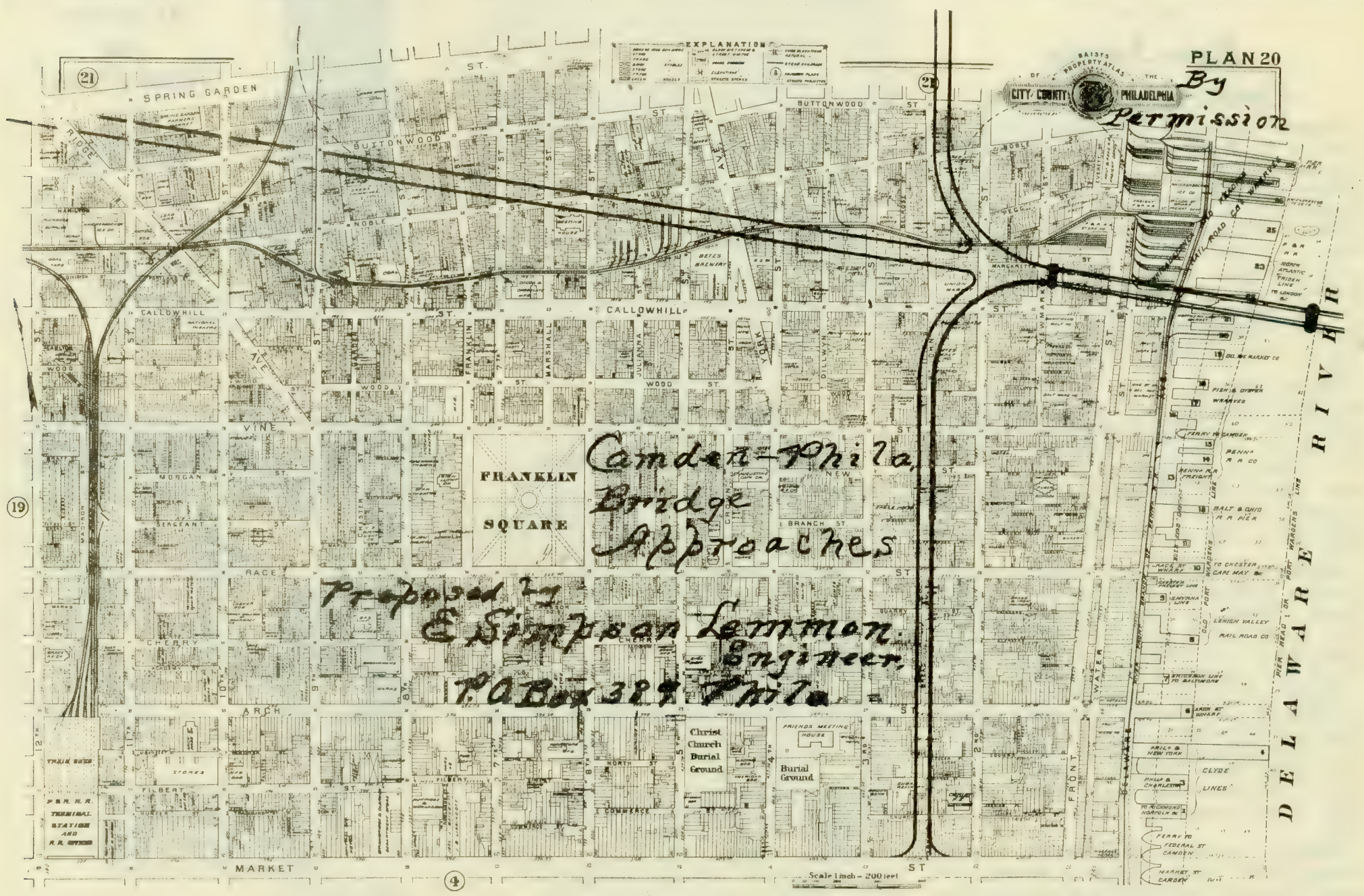
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Portland Cement, Sand or Gravel by carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Co., 1713 Sansom street, Philadelphia, are figuring.

Carpenter and Joiner Shop, Curtis Bay, Md. Architect, private plans. Owners, Union Shipbuilding Co., Curtis Bay, Md. Brick and steel, asphalt roof, steam heating, electric light, rolled steel sash, rolling doors, roof ventilators, waterproofing, metal lath, plastering, painting and glazing. Owners taking bids, due March 18th. Hughes-Foulkrod Co., Commonwealth Building, and M. H. McClaskey, Jr., Inc., 1620 Thompson street, Philadelphia, are figuring.

Dairy Building (add.), Wilmington, Del. Architect, Wm. H. Timm, Perry Building, Philadelphia. Owner, Clarence Fraim, care of architect. Concrete, 2 stories, 40x80 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to Hamilton & Co., Wilmington, Del.



CAMDEN-PHILADELPHIA BRIDGE, LOCATION AND APPROACHES

Proposed by E. SIMPSON LEMMON, Engineer

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In all public improvements the best results can be obtained by making as little change as possible in existing conditions where good, and changing freely where there is room for betterment.

In considering the proposed bridge over the Delaware River from Philadelphia to Camden, it would be unwise to add a large volume of traffic to an already congested district while adjacent territory is just rife for new conditions and new enterprises.

The Bridge is not a purely local matter and of course will become a direct highway between localities far from both cities and must include a direct route through the un-congested parts of each as a matter of national importance.

Consequently the main span has been located in a position to allow a straight line over it to continue to existing main arteries of travel outside the congested zones.

This straight line starting near the State Street Bridge over Cooper's Creek crosses the northwest corner of Camden, crosses the River at its narrowest point, and, by gradual descent, reaches present street grade at Ninth and Buttonwood Streets in Philadelphia; but this main approach is continued to Twelfth and Spring Garden Streets and will receive traffic from the North and West as well as from the Central district.

Traffic coming from York Road, Bethlehem, Allentown district reaches the Bridge at Tenth Street. The vast traffic from the Schuylkill Valley would come via Ridge Avenue and Broad Street for heavy travel, and light travel via Parkway and Spring Garden Street.

The western side of travel would come via Spring Garden Street and travellers from Baltimore, Washington and the South could reach the Bridge via Broad Street to Spring Garden Street.

On the North the Bridge spur would reach grade near Fairmount Avenue between Second and Third Streets, giving access to Kensington, Frankford and the Northeast.

The main spur to the South comes to Market Street in the middle of the block betweein Second and Third Streets, giving easy access for the present business centers and market districts.

The Camden end would have a spur

ending near Court House Plaza, with outlets to Haddon Avenue and to Broadway.

There has been no attempt in this plan to determine size or capacity of the Bridge. The province of this drawing and article being to indicate a suitable location and show a few fundamental facts as the reasons for such location.

The suspension type has been accepted as the proper method and it has been assumed that the Federal Authorities will require sufficient clearance for navigation. The Suspension Piers are located at the authorized Pier Head Lines. The anchorage Piers set well back allow a clear space below that would require no change in present conditions.

From Anchorage Piers, skeleton construction could carry the Bridge over buildings and streets for considerable distances and the sides of the Bridge could be lined with business buildings for several squares from each approach, thus immediately increasing values instead of destroying adjoining properties.

Should it be found desirable to include Public Transportation lines to a great extent, the steam railway lines could enter as shown by dash lines at Ninth and Buttonwood Streets. The Subway and Front Street Elevated have access via circular grade near the anchorage pier, while surface trolley lines have access at Market Street, at Fairmount Avenue, at Ninth, Tenth, Eleventh, Twelfth and Spring Garden Streets.

The grades are all easy, being from 2 per cent. to 4 per cent. at heaviest grades, and no necessity to change present grades of any streets, except possibly a slight change of Church Street and Buttonwood Street.

The traffic at both ends is distributed before leaving the Bridge in such a way as to prevent congestion at any oine point of delivery and avoids the possible repetion of the famous Brooklyn Bridge Crush.

A conflagration in the vicinity of any one of the approaches would not tie up all traffic over the Bridge as would be the case if only one entrance were provided.

The keynote is—Omit elaborate ornate and useless designs and concentrate on utility and real service.

Make Philadelphia-Camden the centre of intense practical activity.

* * *

(Continued from Page 208.)

heavy duty construction is demanded. This is only another factor that makes for greater use of this material, and it has been found upon comparison that there is often real economy in the use of hollow clay tile for all kinds of structural purposes.

If a strictly fireproof building is desired the walls are builded with hollow tile supported on columns and girders constructed with concrete, reinforced with steel bars. In such a structure it is not essential to use any other form of structural material. It is even possible to use a combination of concrete and tile for lintels of short span, though preference is usually given to concrete for this purpose. The foundation is of concrete, and the roof and floors can be constructed with concrete joists and tile fillers, thus making a building entirely of materials that will withstand the ravages of fire.

For the exterior coating of the walls, cement stucco is nearly always used, making the walls pleasing as well as durable. There is no limit to the decorative possibilities of stucco when used on hollow tile walls, and this adds another reason why the use of tile is desirable.

However, it is not necessary to cover the tile with stucco because there can be placed on the building a veneered wall of brick or stone of any kind, and in this way it is clearly to be seen how the wall can be treated in various ways. If there is no need for the elimination of the extra cost, then there can be the most elaborate plans worked out for decorative purposes.

Clay hollow tile makes both the matter of durability and cost less a problem. The question of its architectural possibilities is not limited to any particular style and it is possible to construct a very cheap building with this material, or on the other hand a most elaborate and costly one. It being a fireproof commodity in the first place, and the fact that it possesses dead air spaces, adding warmth in winter and coolness in summer, are factors that enhance its popularity.

The architects and contractors cannot too frequently or deeply impress upon the public mind that, for the man who wishes to erect a modern home, for the man who wishes to build a mansion, or for the man who desires to construct a skyscraper, there is in hollow tile an excellent structural material for buildings in which the matter of fire resistance must be considered, together with cost and durability.—*National Builder.*

* * *

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

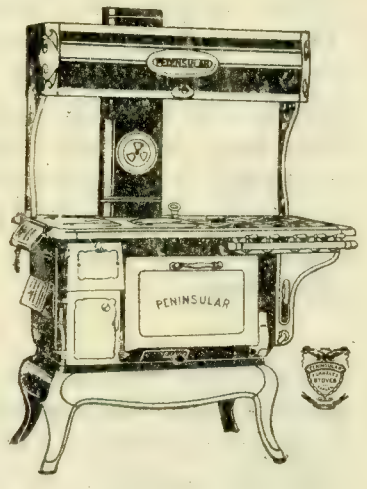
To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class Every copy reaches a live prospect.



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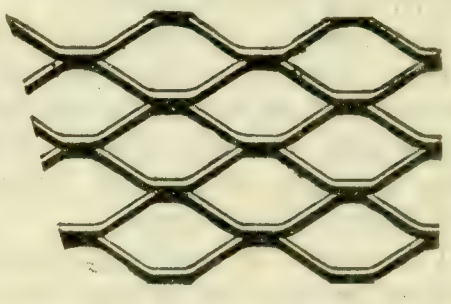
Philadelphia

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Locust 4478

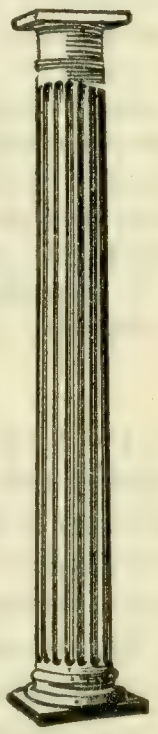
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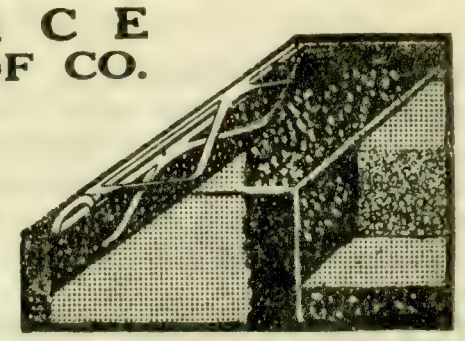
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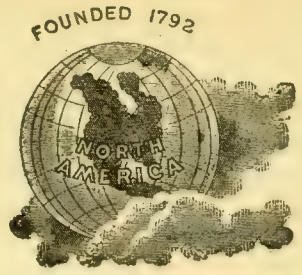
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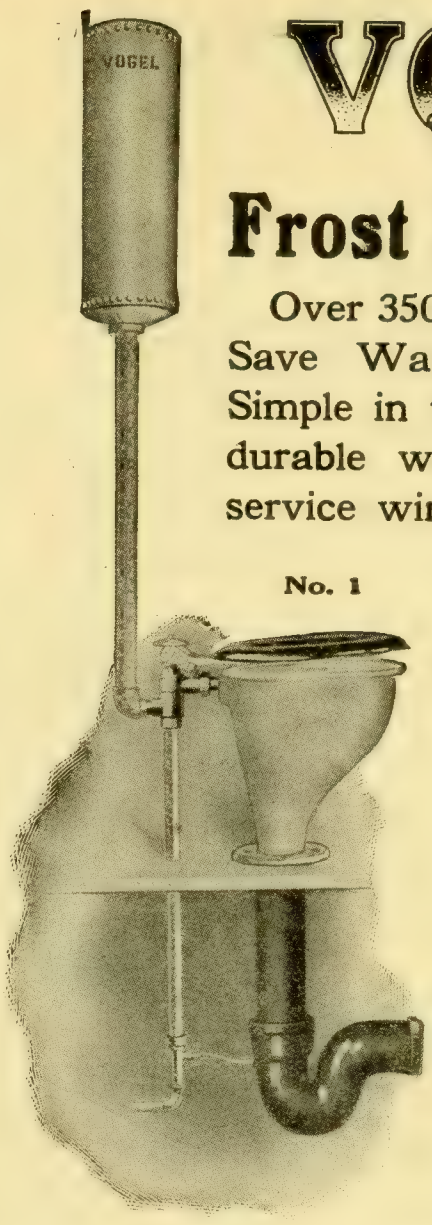
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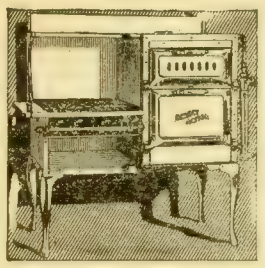
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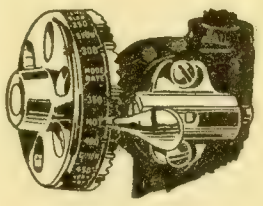






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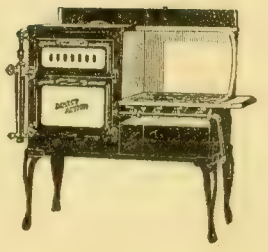


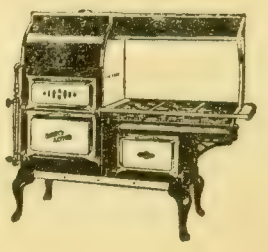
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March 24, 1920

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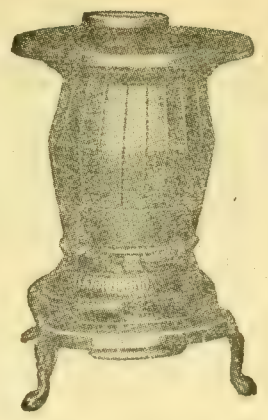
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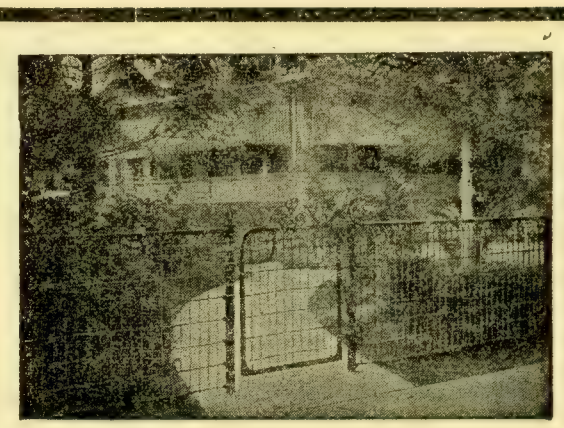
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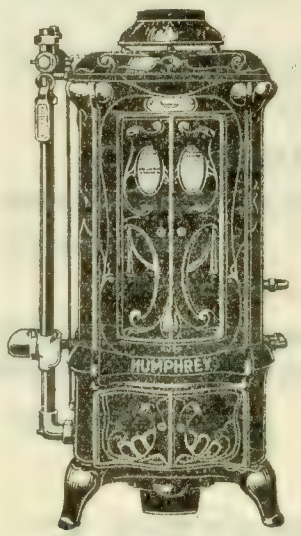
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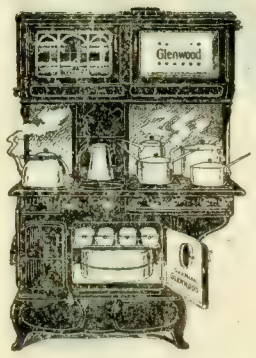
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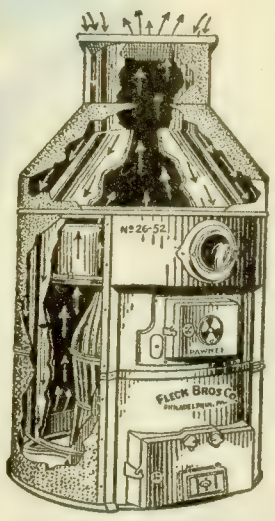
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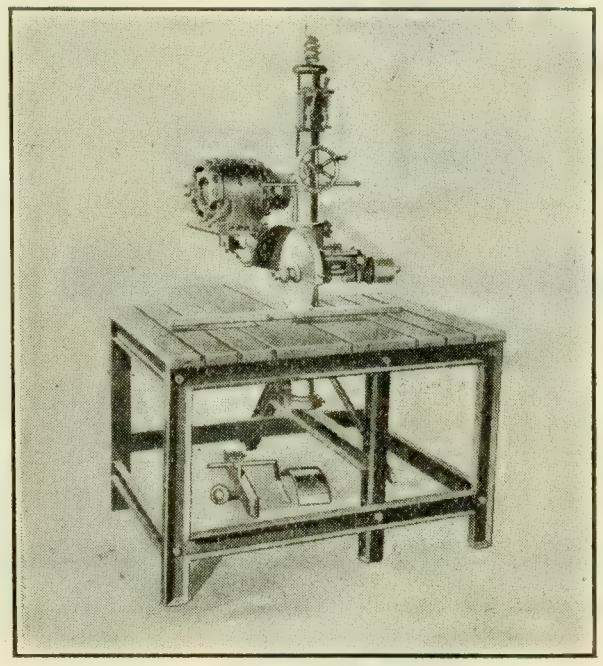
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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March 24, 1920

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As The Editor Sees It

EVERYONE is thrilled today at the mere thought of the wages which labor is demanding and receiving. We all agree that before wages come down high costs must be reduced and the final answer is production.

There is no doubt that labor can, in a very great measure, control this phase of the situation, and should be made to feel its large responsibility. It is certain, however, that the problem cannot be solved without co-operation of both labor and capital; of both employe and employer. Progress is being made daily toward greater harmony between employer and employee, but satisfactory results can not be attained without greater striving on the part of every employer of labor. In a recent interview Samuel Gompers has given some illuminating glimpses of what he would do, were he an employer.

"I should expect," says Mr. Gompers, "to share with my workers the increased benefit of large production, letting them know fully by arrangement with their committees just what it was we were sharing and why we were sharing it. The rates thus arranged would put a real premium on honest, active work and remove every possible difficulty in the way of higher and ever higher production. The idea of limiting production is a very prenicious one, but production will be limited until the two parties to higher production learn to co-operate."

* * *

NO industry is more vitally affected at present by high wages and high prices than the Construction Industry. Everywhere there is work to be done and everywhere people are waiting, if possible, in the hope of some recession in price. Such waiting, however, is foolish and useless, according to Perley F. Ayer, Chief Planner for the Aberthaw Construction Company. "Unless," continues Mr. Ayer, in the *American Contractor,* owners are prepared to put their plans in their pockets, to be kept there, not for two months, but for two years. In short, 1920 promises to be, both relatively and absolutely, the greatest building period that the United States has ever known.

We are, apparently, on the verge of a construction demand 40 per cent. in excess of anything previously encountered.

Whether or not this volume of construction will be accomplished is a question the answer to which is to be found not at all in pressure of demand, but exclusively in means of supply. Here exists a serious problem. During 1919, the shortage of materials and the uncertainty of their delivery, the insufficiency of labor, and the disorganization of transportation constituted the most serious impediments to the fulfilment of contracts with reasonable limits of time and price.

There is no sufficient reason to anticipate improvement in any of these particulars during 1920. A good many organizations, already creaking under existing strains, are likely to crack under the added burdens whcih will begin to blossom with the spring, and will grow and ripen with the expanding year. Not all projects launched will be brought to a triumphant conclusion.

In so far as these notes constitute a warning, however, they are not to be interpreted as a warning against undertaking building in general, but only against attempting certain kinds of it. The big, uncomplicated, industrial operations will be carried through close to schedule wherever they are entrusted to organizations with the capital, the mechanical apparatus, and the human organization capable of large scale procedure. Indeed, if the number of units to be constructed could be materially reduced in number and proportionately increased in size, it is a fair assumption that an expansion of 41 per cent. in volume could be met.

The work that will lag is small scale construction which requires special materials in unusual sizes, instead of standardized design throughout; and which, further, because of the necessity for meeting various architectural requirements, calls for unusually skilled and

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Curiously enough, therefore, the owner contemplating a big project should be encouraged to go ahead with it; the one with a small one should be counselled to a caution and to delay unless he knows himself, for individual reasons, to be in complete control of all the elements essential to a successful outcome.

* * *

Favor for a National Department of Public Works has been manifested by Congressmen who have sat in hearing on the Jones-Reavis Bill, according to M. O. Leighton, chairman of the National Public Works Department Association. Mr. Leighton states:

"It is doubtful if any proposal has been made in Congress in recent years which has met with so little opposition. The opportunities for success are almost unexampled in our legislative history. If there is failure, it will be by reason of the lack of aggressive action by the very men who are, by training and experience, qualified to appreciate most clearly the abuses of the present and the needs of the future."

* * *

HOUSING PLANS IN TOLEDO, OHIO.

A new million-dollar corporation began business in Toledo in January with the announced purpose of financing builders of homes, financing the man buying a home, financing the investor building large apartments for rent, financing owners of downtown real estate who wish to build or remodel, financing home owners who wish to modernize their homes or convert them into duplexes, financing manufacturers who wish to enlarge their plants. The corporation is strongly officered and managed, a majority of the directors also being officially connected with several of the leading banks of the city.

* * *

FINISHING ATTIC ROOMS TO TO RELIEVE HOUSING CONGESTION.

Housing congestion is so acute that the finishing of attic rooms is receiving attention by Chicago building authorities, especially by Building Commissioner Bostrom. It is estimated that there are in Chicago about 180,000 attic rooms which can be finished and made liveable, accommodating 200,000 lodgers. If these rooms are finished and made attractive at an average cost of $600 each and rented for an average of $10 per month, the gross return would represent 20% on the investment, the total investment being $108,000,000.

While housing laws do not permit the cooking or living quarters in the third story of frame buildings, in which most of these rooms would exist, they might permit of sleeping quarters and the rental would be very modest. The rooms could be properly finished so that they may not be too hot in summer or too cold in winter and halfway measures in remodelling them will not be profitable in the long run. If adequately done, they will assist the permanent resident in meeting higher rent problems and will help relieve the present congestion. The question of finishing attic rooms may be profitably considered by other cities.

BUILDERS' EXCHANGE ACTIVITIES

The Fourth Luncheon of the MASTER BUILDER'S EXCHANGE will be held at the Clover Room, Bellevue-Stratford, Thursday, March 25th, at 12.30. Prior to the luncheon, the Membership Committee will hold a meeting in the same room at 12 M.

Those who failed to lunch with the Exchange members last Thursday missed a most inspiring address. Fletcher Stites, a prominent Philadelphia lawyer, was substituted at the last minute to speak in place of Major General Price. General Price was to give the members some vital message for men. Certainly no one will doubt that Mr. Stites gave a message to the members that was as good as has been heard for years, if not as good as we ever had.

Mr. Stites astounded his audience by his marvelous memory in quoting at great length from masterpieces of English literature and from the world's history. The idealism and Americanism conceived by Mr. Stites, and made practical by his very clear explanation, were most exalted. Tracing back through the various periods of time his philosophy, Mr. Stites made manifest that real idealism and genuine Americanism had their inception at the time of Christ, when the Divine Master promulgated His doctrines.

Mr. Thomas Armstrong is to be congratulated on the selection of Mr. Stites as a substitute and, from the opinion voiced by the members present, Mr. Stites will be most welcome as a regular speaker.

Mr. Armstrong, in his convivial manner, told a few experiences of his recent trip to the coast and added a story appropriate at this season. Mr. Armstrong's suggestion to the members that they introduce themselves to each other and get better acquainted is most fitting. Why sit around like a bump on a log waiting to be formally presented to your neighbor at the luncheon table? Get acquainted. Introduce yourself. No one will harm you if you accost a stranger and tell who you are and ask the other fellow his name. It would not be amiss to put a small card in the buttonhole of our coats displaying our names, so any embarrassment that might exist because of not knowing every one might be removed.

This Thursday, Mr. Thomas Shallcross, former president of the Philadelphia Real Estate Board and ex-president of the Kiwannis Club, will speak at the luncheon. Mr. Shallcross has an interesting address, we are sure, as his style is always quite free and his arguments are always forceful.

Come out and hear some good speeches. An hour once a week with the members of the Builders' Exchange will give you a new lease on life.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store (alts. and add.), Fifty-seventh and Market streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, G. T. Pflaumer, Fifty-seventh and Market streets, Philadelphia. Brick, 3 story add., slag roof, general alterations, hardwood floors, tile and marble work, metal bulks. Plans in progress.

Stores and Apartments (alts. and add.), 6515-17 Woodland avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, A. & M. A. Keller, on premises. Brick, 3 stories, add. 3 stories, 15x36 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work, metal lath, plate glass, metal bulks. Plans in progress. Architect will be ready for bids in two weeks.

Residence (alts.), Wissahickon and Midvale avenues, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, 3 stories, general interior alterations. Plans in progress.

Residence (alts. and add.) and Garage, Oak Lane, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Edwin M. Dannenbaum, Mountain avenue, Oak Lane, Philadelphia. Stone, general alterations to residence. Garage, 1 story, stone. Architects have received bids.

Factory (alts.), 303-05 Vine street, Philadelphia. Architect, Louis H. Rush, 34 South Seventeenth street, Philadelphia. Owners, Leas & McVitty, on premises. Carpentry, mill work, rearranging interior of building, new partitions. Architect has received bids.

Residence, location withheld, Philadelphia suburb. Architects, Durham Bros., 26 South Fifteenth street, Philadelphia. Owner, name withheld. Buff Roman brick, 3 stories, 22x78 feet, red tile roof, hardwood floors, stone foundations, hot water heating, electric lighting. Plans in progress. Architects will take bids in about one month.

Residences, (1) Ninth and Louden streets, (1) Nineteenth and Rockland streets, $20,000. Architect, private plans. Owner, W. Fischer's Sons, Hutchinson and Ruscomb streets, Philadelphia. Brick, 2 stories, 16x36 feet, 14x20 feet, electric lighting, hot water heating, slag roofs. Owners will build.

Residences (28), East side Ninth street, North of Louden street, $196,000. Architect, private plans. Owners, W. Fischer's Sons, Hutchinson and Ruscomb streets, Philadelphia. Brick, 2 stories, 16x37 feet, 11x12 feet, slag roof, electric light, hot water heat. Owners will build.

Bungalow, Jackson street, South of Van Kirk street, Philadelphia, $4,000. Architect, private plans. Owner, George W. Crozby, 2264 Bridge street, Frankford, Philadelphia. Brick, 1 story, 28½x39½ feet, slag roof, hot air heating. Owner will build.

Store and Dwelling (alts. and add.), 2943-45 Kensington avenue. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Morris Robinson, on premises. Brick, 3 stories, 36x60 feet, tin roof, maple floors, metal lath, roof ventilators, metal ceilings, stone foundations, hot water heat, electric lighting, tile and marble work, rolled steel skylights, store fixtures, metal bulks, iron work. Architect has received bids.

Apartment House, Forty-fifth and Walnut streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Harrison N. Diesel, 5039 Springfield avenue, Philadelphia. Brick and terra cotta, 3 stories and basement, 100x115 feet, slag roof, hardwood floors, stone foundations, hot water heat, electric light, tile work, marble work, dumb waiters. Plans in progress.

Residences (19), 1420-1456 Chew street, Philadelphia, $124,500. Architect, private plans. Owner, W. J. Baltz, 709 Butler street, Philadelphia. Brick, 2 stories, 16½x46 feet and 16x29 feet, 12x17 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residence (alts. and add.), Sedgwick street, East of Lincoln Drive, Philadelphia. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, John S. Adelhelm, on premises. Stone and brick, 1 story, 12x16 feet, slate roof, pine floors, hot water heating, electric lighting. Architect taking bids due March 25th. I. A. Dunkelberger, 71 East Herman street; William C. Wright, 22 Harvey street, and Samuel Harding, 20 East Johnson street, Germantown; Thomas C. Trafford, 1613 Sansom street, are figuring.

Residence (alts. and add.) to Apartments, 428 Pine street, Philadelphia. Architect, E. L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, G. Duitch, care of architect. Brick, 2 or 3 story add., 15x15 feet, slag roof, hardwood floors, extension to heating and lighting, tile work, plumbing. Plans in progress.

Store and Residences (alts.), Southeast Corner Twelfth and Girard avenue, Philadelphia. Architect, E. L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Nathan Diskan, 1122 Girard avenue, Philadelphia. General alterations. Architect will be ready for bids in a few days.

Coal Pit add. to Boiler Room, Mascher and Diamond streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, St. Bonifacius' Roman Catholic Church, on premises. Demolition of brick building, concrete work, 1 story, 40x30 feet, concrete roof, cement floors, stone foundations. Architect has received bids.

Residence (alts.) to Apartments, 1207 North Tenth street, Philadelphia. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owner, Eli M. Cawley, 1023 Girard avenue, Philadelphia. Brick, 3 stories, remodeling of interior, slag roof, maple floors, vapor heating, electric lighting and fixtures. Architect will be ready for sub-bids in ten days.

Building (Sales and Service), 1310 North Broad street, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Benj. Barron and Murray White, Philadelphia. Reinforced concrete, brick, 2 stories, 190x27 feet, slag roof, cement floors, stone foundations, tile and marble work, hollow metal skylights, iron work, dampproofing, cement floors (plumbing, heating, electric lighting and elevator reserved). Architect has received bids.

Market House (alts.), Nineteenth and Market streets, Philadelphia. Architect, William H. Timm, Perry Building, Philadelphia. Owner, name withheld. Brick work, iron work, roof repairs, electric work, painting, glazing, plastering carpentry and mill work. Architect has received bids.

Store Building, 5504 North Fifth street, Philadelphia. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owner, John Burger, 5504 North Fifth street, Philadelphia. Brick, 2 stories, 37x100 feet, slag roof, maple floors, stone foundations, vapor heating, electric lighting. Architect will be ready for sub-bids in one month.

Garage, Southeast Corner Bryn Mawr and Overbrook avenues, $2,300. Architect, private plans. Owner, T. F. Reilly, Fiftieth and City Line avenue, Philadelphia. Stone, 1 story, 35½x24 feet, slate roof, cement floor. Owner will build.

Dwellings (22), 3213-23 North Twenty-ninth street and 3212-3232 North Dover street, Philadelphia, $104,500. Architect, private plans. Owner, Morris L. Miller, Commonwealth Building, Philadelphia. Brick, 2 stories, 16x35 feet, 11x17 feet, and 15x30 feet, 10x18 feet, slag roof, hot water heating, hardwood and pine floors. Owner will build.

Store Building (alts.), Northeast Corner Twelfth and Girard avenue, Philadelphia. Architect, private plans. Owner, Albert Falkenheim, 948 North Eleventh street, Philadelphia. General alterations. Owner taking bids. F. I. Wintz, 1618 North Twelfth-seventh street, and John W. Kohl, 1401 Corlies street, are figuring.

Residence, Woodbine avenue, Overbrook, Philadelphia. Architects, Architects' Service Co., Fuller Building, Philadelphia. Owner, name withheld. Brick and stucco, 2½ stories, 34x32 feet, slate roof, oak and pine floors, stone foundations. Architects taking bids due March 25th. John E. Kearney, 34 South Seventeenth street, is figuring.

Residence, Carpenter lane, Germantown, Philadelphia. Architects, Duhring & Ziegler, 1218 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x50 feet, shingle roof, oak and pine floors, stone foundations, hot air heating, electric lighting, tile



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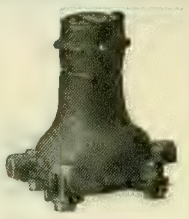
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work, iron work. Architects have received bids.

Stores and Dwellings (2), Fox Chase, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, W. E. Strock, Oxford Pike, Fox Chase, Philadelphia. Brick and frame, 2 stories, 18x66 feet, slag roof, pine floors, stone foundations, hot water heat, electric light, iron work. Owner will build and is taking sub-bids.

Store and Dwelling and (23) Dwellings, Fifty-fourth and Berks streets, $192,000. Architect, private plans. Owners, Ferguson & Collins, Twenty-fourth and Berks streets, Philadelphia. Brick, 2 stories, (2) 17 feet 10 feet x49½ feet, (22) 15x29 feet 2 inches, 13x23 feet 4 inches, hot water heating. Owners will build.

Loft Building, Sixteenth and Sansom streets, Philadelphia. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Reinforced concrete and steel, 6 stories, 20x60 feet, slag roof, cement floors, metal lath, elevators waterproofing, dampproofing, stone foundations, steam heating, electric lighting, kalamein doors, iron work. Architects have received bids.

Store (alts.), Northeast Corner Ninth and South streets, Philadelphia. Owner, D. Epstein, 722 South street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. General alterations, tile floors, electric lighting, hot water heating, marble work, metal ceilings, store fixtures, flush bulk. Owner is taking bids.

Store and Residence (alts.), 1123 South street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, I. Malish, 313 South street, Philadelphia. Interior alterations, mill work, hot water heating, electric lighting, plumbing, marble work, metal work. Owner is ready for bids.

Stores and Apartments, 2846-48 North Fifth street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owners, Bell Market Co., Fifth and Cambria streets, Philadelphia. Brick, 3 stories, 36½x78 feet, slag roof, pine floors, hot water heat, electric lighting, marble work, hollow metal skylights, flush bulks, metal ceilings. Architect will be ready for bids in a few days.

Residence, Castor road and Foulkrod street, Philadelphia. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, E. A. Bergen, care of architect. Brick, hollow tile and stucco, 2½ stories, 25x43 feet, shingle roof, hardwood floors, stone foundations, vapor heat, electric lighting, tile work. Plans in progress. Ready for bids in a week.

Residences (2), Nos. 5 and 6, Stenton, Philadelphia. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owners, Mauran, Dolman & Co., Liberty Building, Philadelphia. Hollow tile and plaster, 2½ stories, 35x40 feet, slate roof, oak and pine floors, hollow tile, stone foundations, electric lighting, tile work, ornamental iron work. Architects taking bids, due March 26th. Thos. C. Trafford, 1613 Sansom street; Tourison & Tourison, 1011 Chestnut street, Philadelphia, and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Bungalows (4), ..os. 1, 2, 3 and 4, Stenton, Philadelphia. Architects, Druckenmiller & Williams, 1537 Liberty Building, Philadelphia. Owners, Mauran, Dolman & Co., Liberty Building, Philadelphia. Stone, 2½ stories, 41x27 feet, slate roof, pine floors, metal lath, stone foundations, electric lighting tile work, metal lath, ornamental iron work. Architects taking bids due March 26th. Thomas C. Trafford, 1613 Sansom street; Tourison & Tourison, 1011 Chestnut street, Philadelphia, and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Residence, Stratford road and Kitchen lane, Germantown. Architect, Robert Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, A. Wolstenholme, 322 Manheim street, Germantown. Stone, 2½ stories, 102x48 feet, shingle roof, oak and pine floors, stone foundations, hot water heating, electric lighting, tile work. Architect has received bids.

Residence, Torresdale, Philadelphia. Architect, J. Emlen Bullock, Middle City Building, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 29x30 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile and marble work. Architect will be ready for bids in a few days.

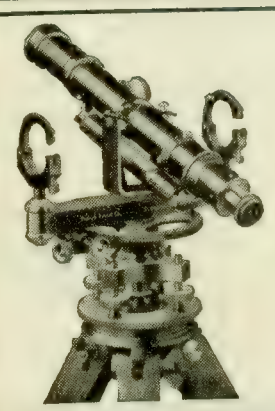
Residence, 3304 Higbee street, Philadelphia, $4,000. Architect, private plans. Owner, Samuel Best, 3301 Higbee street, Philadelphia. Brick, 2 stories, 16x44½ feet, slag roof, hot water heating. Owner will build.

Sewers, Philadelphia. Owner, City of Philadelphia, Department of Public Works, care of John C. Winston, Director, Room 416, City Hall, Philadelphia. Branch sewers, main sewers, reconstruction of sewers, cast iron water mains. Owners taking bids due March 26th.

Apartments and Store (alt. and add.), Fortieth and Baltimore avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Frederick Felzman, care of architect. Architects taking bids due March 27th. Ketcham & McQuade, 1029 Brown street, and F. A. Havens & Co., 845 North Nineteenth street, Philadelphia, are figuring.

Residence (add.), Sedgwick street and Lincoln Drive, Philadelphia. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, John S. Adelhelm, on premises. Stone and plaster, 1 story, 12x12 feet, slate roof, cement floors, stone foundations, electric lighting, heating extension. Architect taking bids. Thomas C. Trafford, 1613 Sansom street, Philadelphia, additional bidder.

Marshall Sub-Station (alts. and add.), Marshall and Noble streets. Architect, John T. Yindrim, Commonwealth Trust Building, Philadelphia. Owner, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia.



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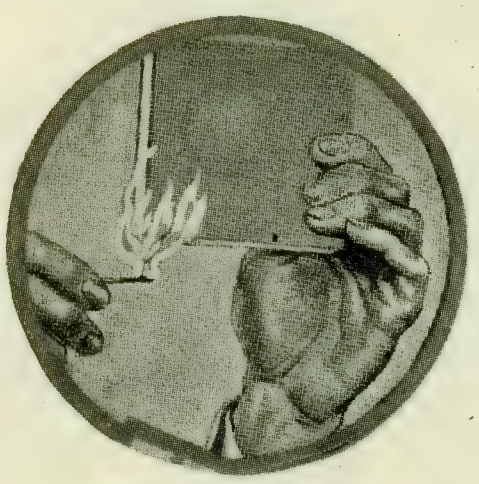
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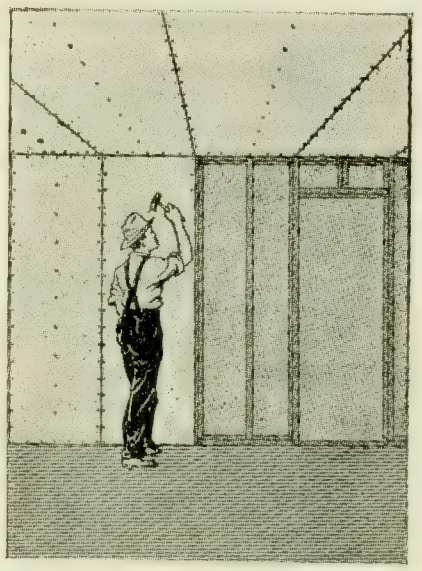
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Brick, stone and steel, 1 story, 44x66 feet, slag roof, cement floors, stone foundations, steam heating, marble work (electric work reserved), roof ventilators. Architect taking bids due March 30th. Irwin & Leighton, 126 North Twelfth street, and John R. Wiggins & Co., Otis Building, Philadelphia, are figuring.

Stable (alts. and add.), 4716 Westminster avenue, Philadelphia, $5,000. Engineers, Stuckert & Co., 1420 Chestnut street, Philadelphia. Owners, Scott-Powell. Brick, 1 story, 18x38 feet, slag roof. Engineers will build.

Building, 1329 Vine street, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Serber & Ash, West End Trust Building, Philadelphia. Brick, concrete and steel. Plans in progress.

Church, Sixty-fifth and Callowhill streets, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, St. Donato's Roman Catholic Church, care of Rev. Pietro Michetti, on premises. Stone, slate roof, steam heating, electric lighting. Architect taking bids due April 2nd at 10 A. M. William R. Dougherty, 1610 Sansom street; Conneen Const. Co., 10 South Eighteenth street ;Philip Di Giacomo, 2036 West Clearfield street; Stang & Mitchell, Real Estate Trust Building; Roger Atkinson, Builders' Exchange, and John McShain Est., 1610 North street, Philadelphia, are figuring.

Manufacturing Plant, Adams avenue and Rising Sun lane, Philadelphia. Engineers, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Electric Storage Battery Co., Herbert Lloyd, president, Nineteenth and Allegheny avenue, Philadelphia. Reinforced concrete, slag roof, concrete floors, steam heating, electric lighting, rolled steel sash, fire doors, ornamental iron work. Preliminary plans in progress.

Moving Picture Theatre, 6318-26 Woodland avenue, $250,000. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, Marcus A. Bean, 6338 Woodland avenue, Philadelphia. Brick, concrete, steel and terra cotta, 90x185 feet, slag roof. Preliminary plans in progress.

Manufacturing Plant, Sixty-ninth and Gray's avenue, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, General Electric Co., Schenectady, N. Y. Brick, concrete, steel. Preliminary plans in progress.

Office Building (add.), Broad Street Station, Philadelphia. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and steel, add. to 6th floor, 31x28 feet, slag roof, pine floors, metal lath, heating and lighting exttensions, copper skylights, roof ventilators. Architect taking bids due March 25th. Irwin & Leighton, 126 North Twelfth street, are figuring.

Garage (alts.), 3120 Market street, Philadelphia. Architect, private plans. Owners, 20th Century Storage Co., 3120 Market street, Philadelphia. Interior and extetrior alterations, brick work, carpentry, mill work, slag roof repairs, electric work. Owners taking bids due as soon as possible. William R. Graham, 3649 Filbert street; Robert E. Lamb Co., 843 North Nineteenth street, and Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, Southwest Corner A and Mentor streets, Philadelphia, $5,000. Architect, private plans. Owner, Henry Barth, Second and Wyoming streets, Philadelphia. Brick, 1 story, 95x22½ feet, cement floors, slag roof, electric lighting. Contract awarded to S. Stubbs, 126 West Courtland street, Philadelphia.

Garage, West side Fifty-eighth street, South of Overbrook avenue, $3,500. Architect, private plans. Owner, Walter Hayden, 5800 Overbrook avenue, Philadelphia. Stone, 1 story, 21x22 feet, slag roof, cement floors, electric lighting. Contract awarded to Milton W. Young, 2012 North Sixtieth street, Philadelphia.

Residence (alt. and add.), 5136 Wayne avenue, Philadelphia, $5,500. Architect, private plans. Owner, A. H. Leiberman, 5136 Wayne avenue, Philadelphia. Brick, 1 story add., 14x10 feet, steam heating, electric lighting, hardwood floors. Contract awarded to S. Bass & Son, 824 North Nineteenth street, Philadelphia.

Dwelling (alts.), 5326 Vine street, Philadelphia, $3,000. Architect, private plans. Owner, Franklin Cannon, on premises. General interior alterations, plumbing, new partitions. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

Factory (alts.), Northeast Corner Thirty-fourth and Ludlow streets, $3,000. Architect, private plans. Owners, Supplee, Wills, Jones, Twenty-sixth and Jefferson streets, Philadelphia. General alterations. Contract awarded to George Kessler Cont. Co., Drexel Building, Philadelphia.

School Building (add.), Twenty-eighth and Allegheny avenue, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Corpus Christi Parish, care of Rev. Henry A. Naylor, on premises. Stone and steel, second story add., 125x68 feet, slag roof, pine floors, terrazzo work, roof ventilators, iron work (heating, electric work and plumbing reserved). Contract awarded to William J. McShane, 417 South Thirteenth street, Philadelphia.

Building (alts. and add.), Chestnut street, near Thirty-fourth street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Universal Motor Agency, 3438 Ludlow street, Philadelphia. Brick and concrete, 2 stories, 75x215 feet, 4-ply asbestos asphalt roof, cement floors, tile and maple floors, marble work, metal lath, fire doors, iron work, stone foundations (heating, plumbing and electric work reserved). Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

Office Building (alts. and add.), Wyoming Exchange, Broad and Rockland streets, Philadelphia, $550,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick, terra

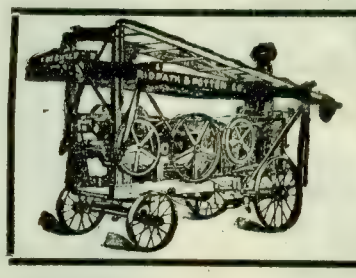


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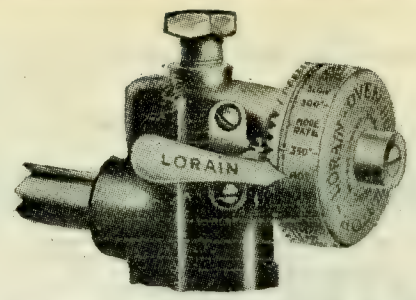
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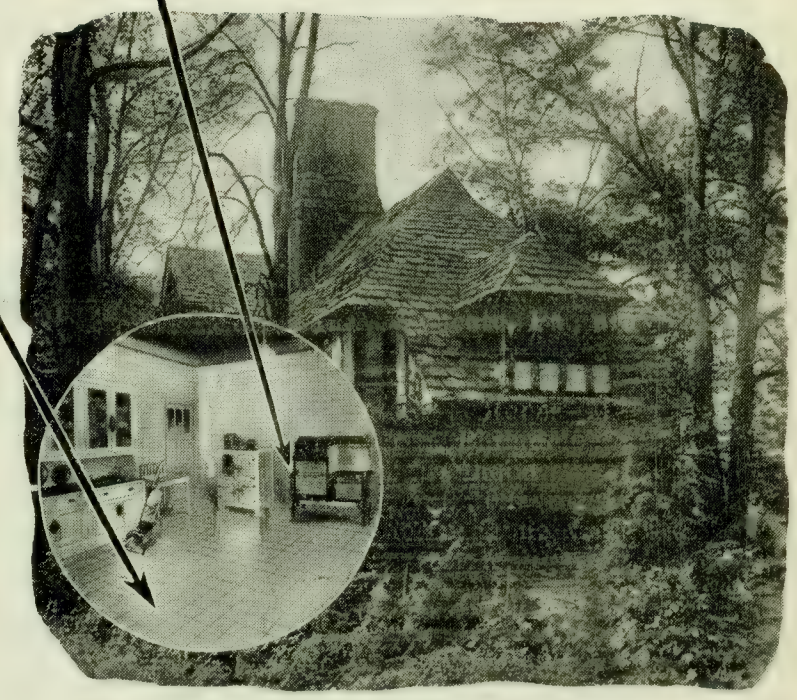
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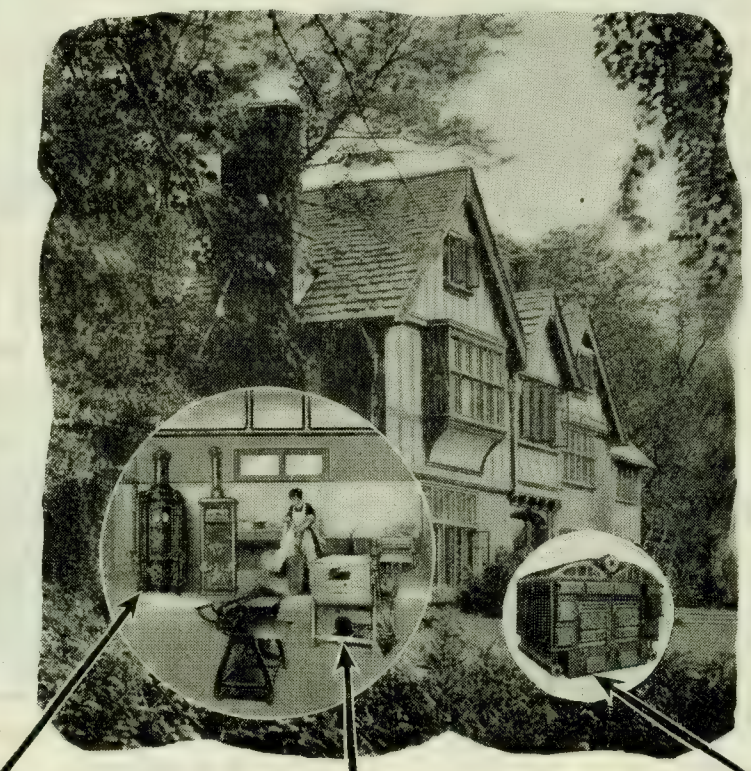


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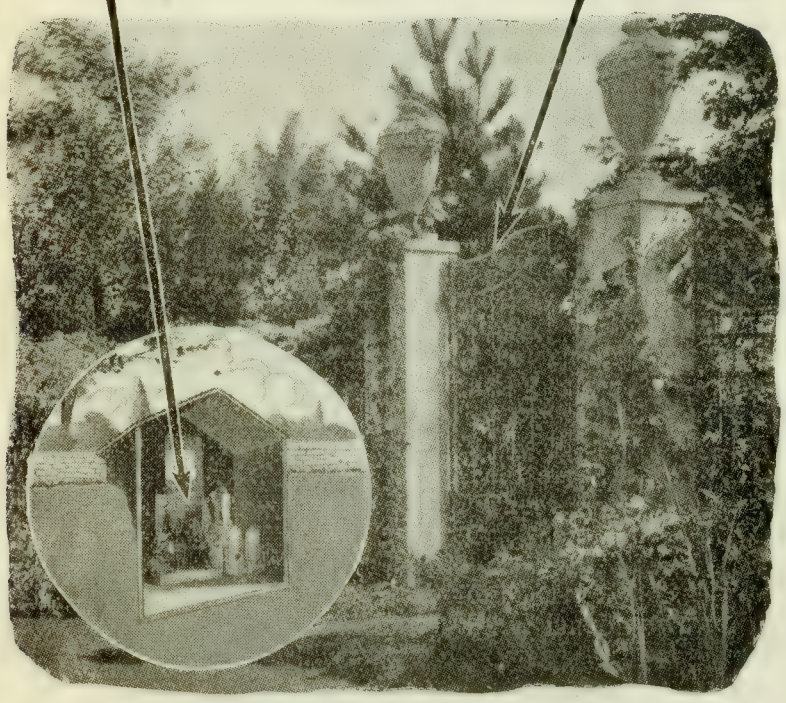
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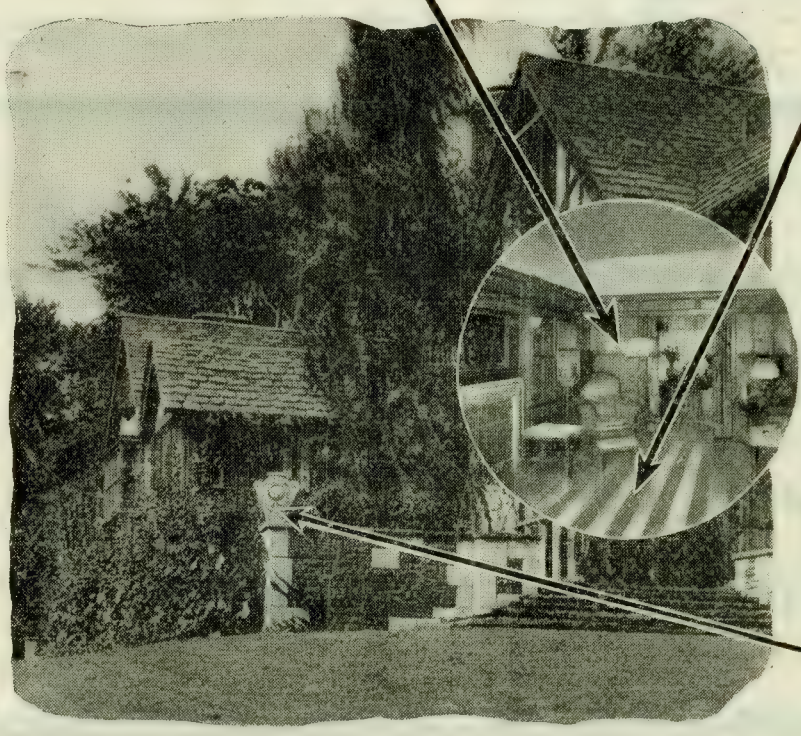
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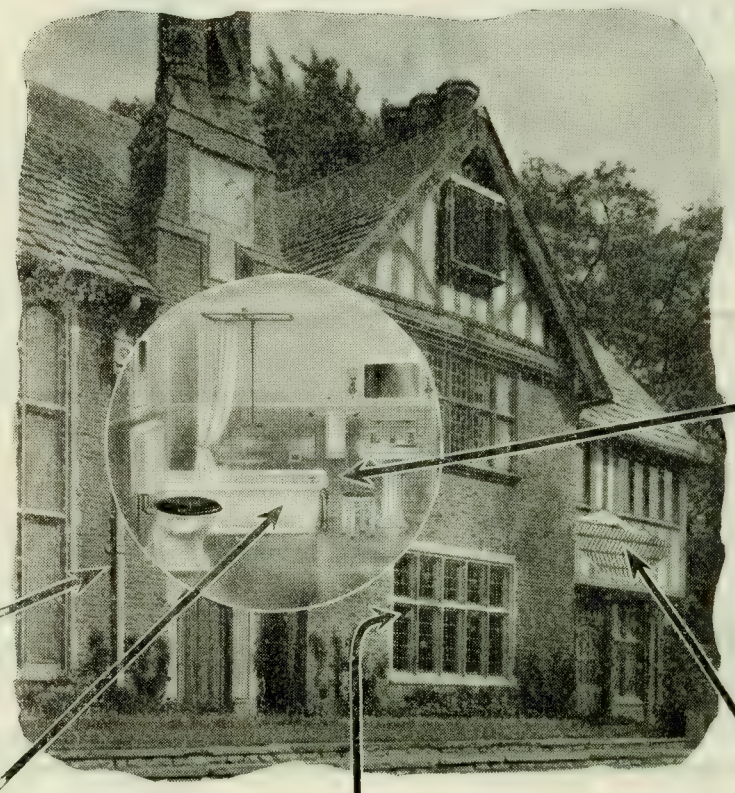
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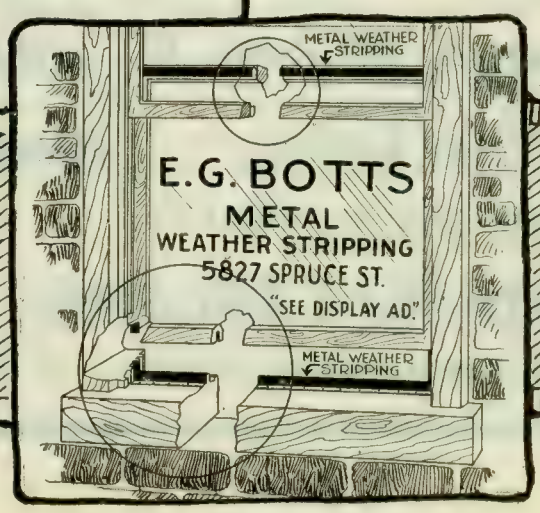
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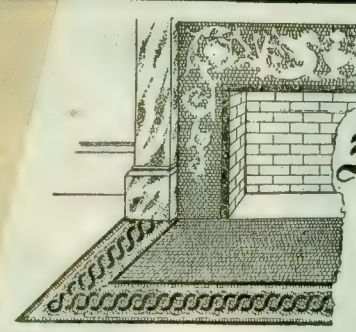
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Residence (alts.), 328 Pelham road, Philadelphia, $15,000. Architect, private plans. Owner, M. M. Perlman, care of Keystone Galvanizing Co., Twenty-fifth and Morris streets, Philadelphia. Carpentry, tile roof, oak floors, hot water heating, plastering, new partitions, painting and general renovation. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Store and Dwelling (alts. and add.), 4446-48 Frankford avenue, $11,500. Architect, private plans. Owner, Harry Heim, 4450 Frankford avenue, Philadelphia. Brick, 1 story, 9x13 feet, electric lighting, hot water heating, new floors, new partitions, metal bulks. Contract awarded to A. Kirpichnikoff, Fifth and Tasker streets.

Store and Dwelling (alts. and add.), 1436-38 Germantown avenue, $5,000. Architect, private plans. Owner, A. Rose, on premises. Brick, third story add., 10x10 feet, 1 story, 10x15 feet, slag roof, electric lighting. Contract awarded to B. Arrow, 992 North Seventh street, Philadelphia.

Office Building, 1909-11 East Allegheny avenue, Philadelphia. Architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owners, Potts & Thomson, 2521 Frankford avenue, Philadelphia. Brick, steel and limestone, 2 stories, 31x48 feet, slag roof, pine floors, metal lath, stone foundations, steam heat, electric lighting, rolled steel sash, iron stairs, iron work, metal lath, roof ventilators, tile, marble and terrazzo work. Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

Manufacturing Building, Southwest Corner Tenth and Pearl streets, $20,000. Architect, private plans. Owners, Jarden Lithograph Co., on premises. Brick, concrete and steel, 2 stories, 38x52 feet, slag roof, maple and concrete floors, hollow tile, stone foundations, rolled steel sash. Contract awarded to F. I. Wintz, 1618 North Twenty-fourth street, Philadelphia.

Store (add.), 323 North Third street, Philadelphia, $12,000. Architect, private plans. Owners, McAdoo & Allen, 331 North Third street, Philadelphia. Brick, second story add., 20x120 feet, slag roof, pine floors. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Store and Dwelling, Northwest Corner Sixth and Moyamensing avenue, Philadelphia, $4,500. Architect, private plans. Owner, Samuel Keyser, 2124 South Sixth street, Philadelphia. Brick, 15 feet and 37½x53 feet, slag roof, hot water heating, electric lighting. Contract awarded to James Sasnow, 2021 South Fourth street.

Club House and Gymnasium (alts.), Northeast Corner Broad and Fairmount avenue, Philadelphia, $30,000. Architect, private plans. Owners, Salvation Army, on premises. General alterations and additions, mill work, carpentry, steam heating, electric work, plastering, metal lath, plumbing. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Store (alts. and add.), Northeast Corner Thirteenth and Federal sterets, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, M. Cassano, on premises. General interior alterations. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

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East 192 **Philadelphia, Pa.**

Philadelphia, $3,500. Architect, private plans. Owner, John Mann, on premises. General renovation, fire damage. Contract awarded to Julius Ostroff, 310 Porter street, Philadelphia.

Tenement House (alts.), 1902 Arch street, Philadelphia, $3,000. Architect, private plans. Owner, Samuel Englander, Crozer Building, Philadelphia. General interior alterations. Contract awarded to Arthur C. Penter, Crozer Building, Philadelphia.

Grand Stand, Southwest Corner Thirty-fourth and Reed streets, Philadelphia, $25,000. Architect, private plans. Owner, Madison Athletic Park Co., 1524 Chestnut street, Philadelphia. Iron on iron, 63x138 feet, 16x304 feet and 10x200 feet. Contract awarded to H. A. Augustus, 1728 Christian street, Philadelphia.

Garage, 3655 Camac street, Philadelphia, $8,000. Architect, private plans. Owner, H. J. Hellings, 3652 North Camac street, Philadelphia. Brick, 1 story, 25x17 feet, 17x80 feet and 20x17 feet, slag roof. Contract awarded to J. Y. Loux, Northwest Corner Fifteenth and Hunting Park avenue.

Storage Building (alts.), 21-23 South Sixth street, Philadelphia, $5,000. Architect, private plans. Owner, Franklin Printing Co., 514 Ludlow street, Philadelphia. Alterations to elevator shaft. Contract awarded to Harry R. Rust, 19 South Eighth street, Philadelphia.

Store and Two-Family House (add. and alt.), 5035 Baltimore avenue, $3,500. Architect, private plans. Owner, Joseph S. Dondna, on premises. Brick, 2-story add., 14x16 feet, general alterations. Contract awarded to Frank R. Shriver, Fifty-first and Catharine streets.

Store (alts.), 632 Market street, Philadelphia, $3,000. Architect, private plans. Owner, Girsh & Co., on premises. General alterations. Contract awarded to J. H. Feeser, 1011 Liberty Building, Philadelphia.

Storage Building, South side Hunting Park avenue, East of Twenty-fifth street, $350,000. Architect, private plans. Owner, Simmons Co., Kenosha, Wis. Reinforced concrete, 2 stories, 100x120 feet, 60x40 feet and 260x100 feet, slag roof, steam heat, electric light, concrete floors, waterproofing, dampproofing, steel sash, structural steel, metal skylights, hollow tile. Contract awarded to Wark Co., 1737 Filbert street, Philadelphia.

Welfare Building, Southeast Corner N and Luzerne streets, $34,000. Architect, private plans. Owner, Louis Walther Mfg. Co., Torresdale and N streets, Philadelphia. Brick, 1 story, 63 feet 8 inches x91 feet 8 inches, slag roof, steam heat, electric light, oak and pine floors, metal lath. Contract awarded to Geo. H. Thirsk, 4305 Horrocks street, Philadelphia.

Residence, East side Forty-ninth street, North of Edgley avenue, $17,000. Architect, private plans. Owner, J. A. Ross, 4915 Wynnefield avenue, Philadelphia. Stone, 3 stories, 23 feet 4 inches x45 feet 2 inches, slag roof, hot water heat, electric light. Contract awarded to H. H. Kratz, 4905 Wynnefield avenue, Philadelphia.

Store Room (alts.), Southeast Corner Richmond and Cumberland streets, $7,500. Architect, private plans. Owner, William Cramp & Sons, on premises. General fire repairs, carpentry, mill work, corrugated asbestos roof, steel and iron work. Contract awarded to A. R. Raff Cont. Co., 1635 West Thompson street, Philadelphia.

Residence (alts. and add.), 5136 Wayne avenue, Philadelphia, $5,500. Architect, private plans. Owner, A. H. Lieberman, 5136 Wayne avenue, Philadelphia. Brick, 1 story add., 14x10 feet, general alterations. Contract awarded to S. Bass & Son, 824 Norht Nineteenth street, Philadelphia.

Garage, 1203-05-07 West Somerset street, Philadelphia, $6,000. Architect, private plans. Owner, Gustave Kirshner, 1238 West Lehigh avenue, Philadelphia. Brick, 1 story, 42 feet 3 inches x83 feet, slag roof, steam heat, electric light, cement floors, plumbing, mill work, structural steel work. Contract awarded to William F. Koelle Co. Twenty-sixth and Oxford streets, Philadelphia.

Rope Factory (add.), Tacony street, North of Sanger street, Frankford, $27,400. Architect, private plans. Owners, Edw. H. Fitler Co., 517 Arch street, Philadelphia. Brick, 1 story 80x105 feet, slag roof, pine floors, electric lighting. Contract awarded to Charles A. Collier, 4287 Orchard street, Frankford, Philadelphia.

Manufacturing Plant, Front and Shunk streets, Philadelphia. Architect, William Higginson, 18 East Forty-first street, New York City. Owner, American Mfg. Co., Brooklyn, N. Y. Concrete and steel, 3 stories, 150x383 feet, slag roof, concrete floors, concrete foundations, steam heating, electric lighting, rolled steel sash, fire doors, safety

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treads, iron work. Contract awarded to Turner Const. Co., 1713 Sansom streets, Philadelphia.

Store and Residence (alts.), McKean and Passyunk avenue, $8,000. Architect, private plans. Owner, F. P. Scheid, 2103 South Fifteenth street, Philadelphia. General alterations. Contract awarded to H. D. Prettyman, 2603 South Broad street, Philadelphia.

Factory (alts. and add.), Collins street, South of Willard street, $5,800. Owners, Masland Leather Co., Amber and Willard streets, Philadelphia. Brick, 1 story, 42x56 feet, slag roof, repairs to floors. Contract awarded to E. Earl Barnes Co., Twentieth and Pacific streets, Philadelphia.

PENNSYLVANIA Construction News

Residence and Garage, Calvert road and Sycamore avenue, Merion, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, James R. Scott, care of architects. Stone and English hollow timber, 2½ stories, 78x29 feet, wing 16x16 feet, slate roof, hardwood floors, cement work, stone foundations, vapor heating, electric lighting, tile work. Owner ready for sub-bids at architects' office.

Bank, Media, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, Media Title & Trust Co., care of V. G. Robbing, president, Media, Pa. Brick and stone, fireproof, 2 stories, 45x85 feet, slag roof, steam heat, electric light, marble work, hollow metal skylights, bank fixtures, vaults, ornamental iron work. Plans in progress.

Convalescent Home, Newtown Square, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, name withheld, care of architect. Fireproof 3 stories, 280x30 feet, Vernon slate roof, steam heat, electric light, terrazzo work. Plans in progress.

Residence and Garage, Drexel Hill, Pa. Architect, James C. Miller, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Stone and stucco, 2½ stories, 50x148 feet, asbestos shingle roof, hardwood floors, cement floors, hot water heat, electric light, tile work, metal lath. Architect will take sub-bids in two weeks.

Residence, Andrews avenue, Collingdale, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Christian Hansen, East Lansdowne, Pa. Stone and frame, 2½ stories, irregular size, slate or shingle roof, hardwood and pine floors, stone foundations, hot water heat, electric lighting. Owner will take sub-bids in a week.

Residence (alts.), Ardmore, Pa. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owner, Winthrop Sargent, Jr., Ardmore, Pa. Interior alterations, raising roof, heating and lighting extension. Architects taking bids due as soon as possible. Gray Bros., Rosemont, Pa., and Edw. J. Tiernan, Ardmore, Pa., are figuring.

Church (alts. and add.), Pottsville, Pa. Architects, Zanzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Trinity Church, Pottsville, Pa. Stone, slate roof, steam heating, electric lighting (painting and interior finish reserved). Architects taking bids due March 30th. William R. Dougherty, 1610 Sansom street; C. Messersmith, Pottsville, Pa., and Beard Const. Co., Reading, Pa., are figuring.

Science Building (add.), Swarthmore, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Swarthmore College, Swarthmore, Pa. Stone, 2½ stories, 62x32 feet, slate roof, maple floors, metal lath, stone foundations, steam heating, electric lighting, ornamental iron work. Architects taking bids. Barclay White & Co., 1713 Sansom street, Philadelphia, are figuring.

Residence, Glenside, Pa., $20,000. Architect, private plans. Owner, F. G. Justice, Twenty-sixth and Oxford streets, Philadelphia. Stone, 2 stories 40x51 feet, asbestos shingle roof, pine floors, stone foundations, hot water heating, electric lighting, tile work. Owner has received bids.

Residence, Oakmont ,Pa. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, John F. Sturm, 325 North Fifty-second street, Philadelphia. Frame and stucco, 2½ stories, 28x35 feet, shingle roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Owner is taking sub-bids.

Bungalow, Oakmont, Delaware County, Pa. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, John F. Sturm, 1328 Walnut street, Philadelphia. Hollow tile and stucco, 1½ stories, 30x50 feet, shingle roof, pine and oak floors, tile foundations, hot water heat, electric light, tile work. Owner is taking sub-bids.

Residence, Ardsley, Montgomery County, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Mary A. Thomas, care of architect. Hollow tile and stucco, 2½ stories, 20x36 feet, composition and slate roof, oak and pine floors, hot air heating, electric lighting, tile work. Architect taking bids due March 27th. Maxwell W. Oberholtzer, Glenside, Pa., is figuring.

Store and Apartment Building, Bryn Mawr, Pa. Architect, Lindley Johnson, Harrison Building, Philadelphia. Owners, Gane & Snyder, Bryn Mawr, Pa. Brick, 3 stories, 80x31 feet, slag roof, pine floors, stone foundations, hot water heating, electric lighting, roof ventilators, iron work. Owners taking bids due March 27th. William R. Dougherty, 1610 Sansom street, Philadelphia; Jacob Myers & Sons Co., Witherspoon Building, Philadelphia, Gray Bros. Rosemont, Pa.; Joseph J. Graham, Bryn Mawr, Pa., and Henry P. Wolf & Co., Bryn Mawr, Pa., are figuring.

Stores (alts.), Lancaster, Pa. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Schulte Cigar Co., Fifteenth and Chestnut streets, Philadelphia. Brick work, plate glass, mill work, granite work, carpentry, heating extension. Architects have received bids.

Chapel, Allentown, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, St. Elizabeth's Protestant Episcopal Church, Allentown, Pa. Stone and stucco, 1 story, 42x60 feet, slate roof, steam heat, electric lighting. Architect taking bids due March 25th. Ochs Const. Co., Jacob Nagle, Ritter & Smith, all of Allentown, Pa., and

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Frank G. Glassmeyer, Bethlehem, Pa., are figuring.

Residence, Bryn Mawr, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, Mrs. Richard Taylor, care of architect. Frame and plaster, 2½ stories, 37x34 feet, shingle roof, pine floors, stone foundations (heating, plumbing and electric work reserved), iron work. Architect taking bids due March 29th. Thomas C. Trafford, 1613 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine street; E. J. Hedden, Finance Building, Philadelphia, and Powell Dilworth, Bryn Mawr, Pa., are figuring.

Residence, Merion, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, J. S. Wilford, Merion, Pa. Stone, 2½ stories, 40x79 feet, and 1½ stories, 29x23 feet, slate roof, pine floors, stone foundations, hot water heat, electric light, tile work, iron work. Architects taking revised bids due March 29th. Pomeroy Const. Co., 1609 Ranstead street; John E. Kearney, 34 South Seventeenth street; Charles C. Pace, Merion, Pa.; A. L. Fretz & Son, Heed Building, and A. R. Raff Cont. Co., 1635 Thompson street, are figuring.

Factory, Pottsville, Pa. Architect, Frank X. Reilly, Pottsville, Pa. Owners, Bobb & Baskind, New York City. Brick and steel, 4 stories, 112x60 feet, slag roof, cement and pine floors, stone foundations, electric lighting, hollow metal skylights and doors, roof ventilators, iron stairs, ornamental iron work (heating reserved). Architect taking bids due March 30th. H. E. Baton, 1713 Sansom street, Philadelphia, is figuring.

Church (alt. and add.), Pottsville, Pa. Architects, Zantzinger, Boric & Medary, Otis Building, Philadelphia. Owners, Trinity Church, Pottsville, Pa. Stone, 1 story, 78x32 feet, slate and slag roof, cork and cement floors, hollow tile, metal lath, dampproofing, stone foundations, marble work, hollow metal skylights, copper work, hollow metal sash. Architects taking bids due March 30th. Houser & Wertley, Pottsville, Pa., additional bidders.

Residences (2), Parker avenue, Collingdale, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Christian Hansen, East Lansdowne, Pa. Brick, 2½ stories, 16x40 feet, slate or shingle roof, harlwood floors, hot water heat, stone foundations, electric lighting. Owner is taking sub-bids.

Residences (2), Darby, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Christian Hansen, East Lansdowne, Pa. Brick, 2½ stories, 16x40 feet, slate or shingle roof, hardwood floors, stone foundations, hot water heating, electric lighting. Owner is taking sub-bids.

Hospital and Nurses' Home, Johnstown, Pa. Architect, Bruno Janssen, Century Bldg., Pittsburgh, Pa. Owner, Cambria Steel Co., Johnstown, Pa. Brick, stone, concrete, steel and terra cotta, 114x55 feet, wings 106x28 feet, 106x28 feet, 25x36 feet, (3½ stories) nurses' home, 3 stories, 33x76 feet, slate and slag roof, concrete and oak floors, hollow tile, metal lath, elevators, stair treads, steam heat, electric lighting, tile, marble and terrazzo work, ornamental iron work, stone foundations. Architect taking bids due March 29th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

School, Plymouth, Pa. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, St. Vincent's Roman Catholic Church, care of Rev. P. J. Colligan, Plymouth, Pa. Brick, 2 stories. Plans in progress.

Residence and Garage, Elkins Park, Pa. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, Robert Feeney, care of architect. Stone, 2½ stories, shingle roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Plans in progress.

Manufacturing Building, Marcus Hook, Pa. Architect, private plans. Owners, National Aniline Chemical Co., 21 Burling Slip, New York City. Reinforced concrete, slag roof, steam heating, electric lighting, fire doors, reinforced concrete floors. Plans in progress.

Pennsylvania Contracts Awarded

Garage, Merion, Pa. Architects, Hewitt & Ash, 520 Walnut street, Philadelphia. Owner, Dr. George D. B. Darby, Merion, Pa. Stone and half timber, 1½ stories, 24x60 feet, 26x30 feet, stone foundations, tile roof, cement floors, steam heat, electric light. Contract awarded to A. L. Fretz & Son, Heed Building.

Factory, Moore, Pa. Architect, John Emlen Bullock, 34 South Seventeenth street, Philadelphia. Owner, Dupont Co., Wilmington, Del. Brick and steel, 2 stories, 200x75 feet, slag roof, plank floors, elevators, roof ventilators, stone foundations, steam heating, electric lighting, terrazzo work, rolled steel sash, fire doors, iron work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

New Jersey Construction News

City Hall (add.), Woodbury, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, City of Woodbury, City Hall, Woodbury, N. J. Brick, 2½ stories, 24x30 feet, slate roof and general remodeling. Owners taking bids due March 30th. Joseph B. Best, Woodbury, N. J., and Baldwin Const. Co., Camden, N. J., are figuring.

Restaurant and Apartment, West State street, Trenton, N. J., $300,000. Architect, Walter Hankin, 239 South Warren street, Trenton, N. J. Owner, C. F. Hildebrecht, Trenton, N. J. Stone, concrete, brick, steel and terra cotta, 6 stories, 50x240 feet, slag roof, hardwood floors, steam heating, electric lighting, tile and marble work, rolled steel sash, elevators, roof ventilators. Architect taking bids. J. S. Rogers Co., Drexel Building, Philadelphia, and Warren-Moore Co., Colonial Trust Building, Philadelphia, are figuring.

Residence, Haddonfield, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, William Allen, care of architect. Hollow tile, 2 stories, 60x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking sub-bids.

Store (alt. and add.), 1541 Mt. Ephraim avenue, Camden, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, Thomas Lozarick, care of architect. Brick, 2 stories, 16x30 feet, slag roof, pine floors, hot water heat, electric light, tile work, interior alterations. Architects taking bids due

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as soon as possible. Emil Schulke, 1184 Jackson street; Benajmin Harvey, 1109 Empire street; W. I. May, 125 North Forty-fifth street, Camden, N. J., are figuring.

Office and Store, Broadway and Spruce streets, Camden, N. J. Architect, private plans. Owner, H. S. Litchtenstein, 333 Kaighn avenue, Camden, N. J. Steel, brick and terra cotta, 2 stories, 78x52 feet, concrete foundations, slag roof, hardwood floors, electric light, tile work, metal lath, hollow metal skylights, roof ventilators. Mockett Const. Co., Sixth and Market streets, Camden, N. J., are estimating.

Residence and Store (alt. and add.), Mt. Ephraim avenue, Camden, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, name withheld. Brick, 2 stories, 16x30 feet, slag roof, pine floors, plate glass, general interior alterations. Plans in progress.

Building (alts. and add.), 1308 Pacific avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner, B. W. Klein, Union Bank Building, Atlantic City, N. J. One-story add., containing (3) stores, plate glass, tile work, sheet metal work, slag roof, electric light, open plumbing, tapestry brick. Owner taking bids.

Moving Picture Theatre, Vineland, N. J. Architect, Amos W. Barnes, 1507 Arch street. Owner, B. Lubin, Vineland, N. J. Brick, concrete and steel, 1 story and balcony, 40x130 feet, seating capacity 1,000, cement floors, cement work, slag roof, steam heating, electric lighting. Plans completed. Owner is ready for sub-bids.

Residence (alt. and add.), Lambertville, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, E. W. Hunt, Lambertville, N. J. Brick, 2 stories, 15x15 feet, 10x16 feet, slate roof, hardwood floors, general interior alterations, new plumbing (plumbing fixtures reserved). Plans in progress.

Club House, Trenton, N. J. Architect, William Slack, St. Regis Theatre Building, Trenton, N. J. Owner, Carteret Club, care of architect. Mill construction, 3 stories, 60x120 feet, slag roof, wood floors, vapor heat, electric light, tile work. Plans in progress.

Factory, Trenton, N. J., $300,000. Architect, Walter Hankin, 239 South Warren street, Trenton, N. J. Owner, H. D. Lee Mercantile Co., Kansas City, Kansas. Reinforced concrete, 6 stories and basement, 80x156 feet, slag roof, hardwood and concrete floors, low pressure heat, electric light, hollow metal sash, fire doors, elevators, roof ventilators, dampproofing. Architect ready for bids.

Steel Plant (add.), Ingham street, Trenton, N. J. Architect, private plans. Owner, Trenton Steel & Wire Co., care of Duncanan & MacKenzie, Ingham street, Trenton, N. J. Steel, 1 story, 60x200 feet, concrete foundations, galvanized iron roof, cement and wood floors, rolled steel sash. Owners will build.

Apartment and Store, 196-98 South Broad street, Trenton, N. J., $6,500. Architect, private plans. Owner, Harry Siegel, 1342 Princeton street, Trenton, N. J. Brick, 3 stories, 57x153 feet, concrete foundations, slag roof, pine floors, steam heat, electric light. Owner will build.

Convent, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Dominican Sisters, Camden, N. J. Stone. Plans in progress.

New Jersey Contracts Awarded

Residence and Store (alts.), Collingswood, N. J. Architects, private plans. Owner, Dr. W. S. Chamberlain, Collingswood, N. J. Raising roof, lowering floors, general interior alterations, pine floors. Contract awarded to Mockett Const. Co., Sixth and Market streets, Camden, N. J.

Factory, Meade and Prince streets, Trenton, N. J., $200,000. Engineers, Kerns-Smith Co., care of H. A. Hill, associate architect, Broad Street Bank Building, Trenton, N. J. Owners, Lenox, Incorporated, Mead street, Trenton, N. J. Reinforced concrete and brick, 1, 2 and 3 stories, 75x40 feet, 20x400 feet and 100x394 feet, concrete foundations, Barrett specification roof, electric light, rolled steel sash, hollow tile, elevators. Contract awarded to Kerns-Smith Co., care of associate architect.

Miscellaneous Construction News

Warehouse, Second and Greenhill streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Wilmington Leather Co., on premises. Stone and reinforced concrete, 2 stories, 60x150 feet, concrete foundations, composition roof, concrete floors, steam heat, electric light, rolled steel sash, fire doors, elevators. Architect has received bids.

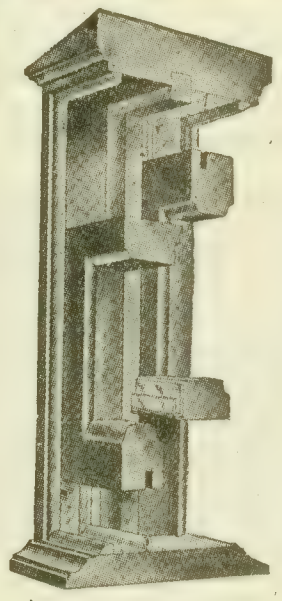
Bank, Wilmington, Del., $200,000. Architects, W. B. Hangaard & Mills, 185 Madison avenue, New York. Owners, Industrial Savings & Loan Association, care of Mr. H. Stout, treasurer, Ford Building, Wilmington, Del. Brick and stone, 8 stories, 36x80 feet, slag roof, hardwood floors, electric light, tile work, hollow metal skylights, roof ventilators, mezzanine, steel, Indiana limestone. Architects and owners taking bids due March 31st. Standard Const. Co., 1713 Sansom street; Irwin & Leighton, 126 North Twelfth street; J. R. Wiggins, Inc., Otis Building; F. W. Van Loon, Denckla Building, and William R. Dougherty, 1610 Sansom street, Philadelphia; F. W. Russum Co., Inc., P. O. Box 1122; J. E. Healy & Son, Inc., 707 Tatnall street; H. D. Watts, Lodge Building; H. S. Lynch, 715 Tatnall street, and Realty Const., Dupont Building, all of Wilmington, Del.; Warren-Moore Co., 347 Madison avenue; Charles Money, 228 West Thirty-sixth street, and Stewart-Willey Co., 1123 Broadway, all of New York, are figuring.

School (park), Roanoke, Va. Architect, H. Courcy Richards, 1713 Sansom street, Philadelphia. Owners, Board of Education, Roanoke, Va. Limestone, brick, concrete and steel, 3 stories, 132x65 feet, auditorium wing, 2 stories, 40x70 feet, slag roof, pine and composition floors, steam heating, electric lighting. Architect has received bids.

Residence, 1502 West Seventh street, Wilmington, Del., $7,000. Architect, private plans. Owner, Andrew D. Omofris, 517 Tatnall street, Wilmington. Brick, 2½ stories, 20x33 feet, stone foundations, slag roof, pine floors, hot water heat, electric light. Contract awarded to E. DiSalvatin & Son, 415 Lincoln street, Wilmington, Del.

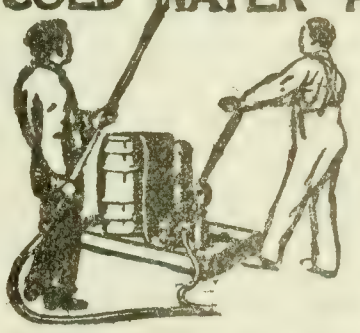
Residence and Garage, Forest Hill, L. I., $40,000. Architects associate, Stanford B. Lewis and Joseph M. Huston, Fifteenth and Walnut streets, Philadelphia. Owner, W. Louis Johnson, 47 West Thirty-fourth street, New York City. Stone, 3 stories, 76x40 feet, tile roof, oak floors, stone foundations, hot water heating, electric lighting, tile and marble work, plumbing, cement work. Contract awarded to A. B. MacGregor, 1224 Chancellor street, Philadelphia, who is taking sub-bids. Plans on file at 1224 Chancellor street.

Edison Lamp Works (factory), Fort Wayne, Ind. Architects, John and Wilson C. Ely, Newark, N. J. Owners, General Electric Co., Schenectady, N. Y. Concrete and



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steel, 2 stories, 376x170 feet, slag roof, maple, concrete and terrazzo work, hollow tile, safety treads, waterproofing, ornamental iron work, stone foundations, rolled steel sash. Owner is taking bids. F. W. Mark Cont. Co., Commercial Trust Building, Philadelphia, is figuring.

Office Building, Schenectady, N. Y., $400,000. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, General Electric Co., Schenectady, N. Y. Brick, steel and concrete, 5 stories, 54x219 feet, electric lighting, steam heating, tile and marble work. Contract awarded to Thompson-Starrett Co., 49 Wall street, New York City.

Mill Buildings, Claymont, Del. Architect, private plans. Owners, Worth Steel Co., Claymont, Del. Brick and steel, slag roof, steam heating, electric lighting, fire doors, metal lath, elevators. Plans in progress.

THE BRICKLAYERS' PARTY.

There was an unusual party held in Philadelphia recently. Pennsylvania Local No. 1 of the Bricklayers' Union asked several architects, Messrs. Abel, Boyd, Bright, Medary, Sellers, and Zantzinger to meet with them and talk bricklaying. I never had less hesitation in accepting an invitation. In the midst of a snowstorm so furious that all street traffic was at a standstill, Zantzinger and I zigzagged on foot ten long city blocks, almost blinded by the stinging ice pellets, before we arrived at our destination. I think that we all felt—I know I did—an immense sense of virtue in having kept our engagement in spite of the frightful weather. But our hosts didn't seem to take this point of view at all. One of them remarked casually that it was a pretty rough night, and then the meeting was declared open.

These men wanted us to teach them how to read plans; they wanted to know what the different symbols meant with which we adorn our blueprints; how to lay out the work and construct a window-opening from the drawings. I had never given very much thought to the matter, but I was astonished to learn from the men themselves that not one of them ever had anything but a faint idea as to what the architect was driving at.

In Philadelphia, the general contractor is the carpenter and his foreman is in charge of the work. The master bricklayer accepts this situation as quite normal, and the bricklavers are discouraged from meddling with things which do not concern them. Anyone who has ever been closely in touch with the actual processes of building knows how effectual are the methods of discouragement employed by wrkmen or those over them. These men facing us, none of them very young, some of them well along in life, were totally ignorant of their art. They asked us to teach them what we knew. They spoke of the interest they would like to take in their work, of the imbecility of a system which demands that a certain number of bricks be laid up each day irrespective of quality of workmanship. Their mortar is prepared for them, they have nothing to say about it, and ofttimes, in order that the contractor may "skin" the job, it is delivered to them in such a condition that good work is out of the question. Throughout the evening there was not one word said, there was not one question asked except in the line of making the job better. Over and over again they asked, "Can't you architects fix it up for us so that we can have a little more interest in our work?". Their complaints about the way their apprentices are used by the master bricklayers and all their other griefs were of lesser consequence than the deep resentment they all felt against the system which stultifies every effort toward self-expression in their art. "We want to make the picture" was the expression used. "You tell us what you want and we'll make it."

It is true that they were talking in term of the ideal. In practice some of it might not work out, but was it not worth while to fight one's way through a terrific snowstorm to spend the evening with men who talked in the purest and noblest language of artists? "What can we do, and what can you do to help us produce better buildings?"

This request could not go unanswered and it was arranged that Mr. Abel should conduct a weekly class on plan reading at the Union Headquarters. It cannot be foreseen just what this will lead to, but knowing the spirit which animates the teacher and the pupils, something really worth while should be achieved.

With all due allowance for the difference between aspiration and realization, we came away from that meeting feeling that we had learned far more than we had taught. Our feeling was that it would be a crime to allow this great moral force to remain unutilized. Must we ignore it and continue all our bargaining on the brutal basis of the number of bricks laid regardless of the quality of the product?

The problem is to give these men an interest in their work. That is what they ask for and with some imagination, good-will, and mutual forbearance, it can be realized! Let them feel that they are at least to some extent artists, that hey are creators and not mere machines, and some of the evils connected with wages will perhaps be less difficult of solution.

JOHN IRWIN BRIGHT.

A KNOWLEDGE OF WOODS.

A knowledge of woods and their peculiar suitability for special purposes is not only a valuable possession for the builder, but is a source of never-failing interest as well.

The sources of information are numerous. The monographs of the Forest Laboratory are particularly rich in technical information, and the various lumber associations furnish gratuitously comprehensive descriptive literature on the qualities and uses as well as the best methods of treating their particular specialties.

Wise builders should possess the aids, study them and keep them on their reference files. These are the days for the studious, reading, builder to make himself a name.

To no other material is given the wide range of qualities found in wood; it is strong and comparatively light; is easily framed, and a good non-conductor of heat. For decorative purposes it furnishes a wide variety of color and grain effects; its natural grain forms designs which are always harmonious but never set, and its possibilities for varied treatment are unlimited.

The wide variation and physical qualities of the different species gives us a wood for every use. A weight of three hundred pounds will imbed a one-half inlh ball half its diameter in some woods, while for some others more than a ton and a half would be required. Woods that will withstand a direct pull of two and one-half tons per square inch are common, while some will run as high as thirteen thousand pounds or more. Four wood columns, twelve inches square and fifteen feet long, will carry a load of half a million pounds. Three men can easily carry a 16 in. x 16 in. column, ten feet long, and this column would readily support the weight of a modern freight locomotive. Woods are found weighing as low as twenty pounds per cubic foot, while others run as high as sixty.

Wood is also one of the best non-conducting materials used in a structural capacity. Its cellular and fibrous structure form a barrier to the passage of heat, which is not found in heavier and more dense materials. This characteristic saves it from condensing moisture and "dampness." It is not offensive to the touch in hot or cold weather, and hence its wide use in making furniture and as a flooring material. Its resistance to the action of weak acids and alkali makes it very useful in the construction of vats and tanks, since it is not liable to taint foods and liquids.

It took the war to focus our attention

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on the fact that delay in construction is a thing almost unknown to wood. The very rapid erection of our military camps and cantonments is a very powerful testimony to the speed with which buildings of this material may be erected. Within ninety days from the time the contracts were let for some of the largest cantonments, thousands of troops were pouring into them and thus it was wood that won the first big battle in the war. Furthermore, it furnished the material for quickly constructed defenses and for bridges necessary in bringing materials and ammunition up to the boys on the firing line. Our boys recently surprised the Germans by throwing a bridge across the Rhine in forty-four minutes.

As a finishing material the use of wood is almost universal. Its wide variety of grains and its many soft and harmonious tones and pleasing textures make possible the large number of pleasing effects that are found in the field of wood finishing decoration. Wood may be cut for special decorative qualities, such as quarter-sawed oak or bird's-eye maple. It may be used as a decoration because of surface effects alone, or it may easily be shaped into refined mouldings and carved into delicate ornaments.

However, the greatest field for usefulness for wood is as a structural matemial. Modern development of machinery and equipment is so rapid that very few factory and commeriacl buildings attain and age of a quarter of a century without being entirely rebuilt, and remodeling is usually a necessity every few years. The mill construction type of building readily meets these conditions. It is not only cheaper in first cost, but changes and alterations are made readily with this type of construction. Structural timber used in this kind of building is often reframed and used again and again. In structural use, timber is not only light, strong and easily framed, but its toughness and elasticity make the sudden failure of beams and joists rare. It is used where sudden loads and shocks are frequent, and not only absorbs the shock, but also the noise which might become very annoying.

For bridge and factory floors, as well as for stockyards, stables, garages, railway stations and the like, wood blocks make a light, quiet, comfortable floor, which "stands the gaff" like a butcher's block. It is not cold to stand upon, is comparatively noiseless and readily repaired when necessary. It has been tried out as a flooring material for baggage cars recently. Its long life under the severe conditions and requirements of this service has proved its value for that purpose.

The introduction of modern methods of wood preservation have opened up a new and wide field for the use of wood. To other desirable qualities of wood, it has added a resistance to the attack of moisture and other destructive agencies, which have heretofore made the selection of a proper material difficult. When used for tanks and flumes, it resists the action of frost and water and allows repairs to be easily and quickly made.

Wood also has the advantage of a very wide availability. Wood for building purposes can be procured in almost every city, town and village in the country and in sizes which are most commonly used in the erection of buildings. Further than this, men are to be found everywhere who are familiar with its use, and can quickly and properly handle the erection of a frame building.

With all the qualities which wood brings into the service of man, its cost is low. The processes of manufacture and distribution have been the subject of careful study and economiacl administrations. The demands of the great war on the industries and the constantly rising level of prices, have affected lumber the least of any of the important building materials. The rise in the general level of materials and also the wages of workmen, have been so rapid in comparison with lumber that thousands who never before could afford to build are now in a position to build for themselves cozy homes, which will bring them content and happiness.—*National Builder.*

* * *

People who want to buy things do not catch the seller, chloroform him and cram the orders into his pocket.

Advertising is the proper education of the public as to where the thing can be found, and therefore it is a necessity.

We are parts and particles of each other, but a little of the kindly glue of human brotherhood is needed to fasten us together. The policeman who keeps the crossing clear, and at the same time informs us as to the location of the post office and the First National Bank, no doubt is, in one sense, an economic waste. On the other hand, he is an economic necessity. He is a necessary middleman.

He relieves the congestion of traffic and granting the hypothesis that he does not misdirect us as to the location of the post office, he speeds us on our way.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

Repitition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.

If your sales-talk is keyed to interest men who build it should occupy space every week in the "Guide," the only building magazine this side of Manhattan Island.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

"WHAT FOOLS THESE MORTALS BE."

An able honest man, if poor, is a damphool!
An able dishonest man, if "smart," is sometimes rich;
But while an able, honest man, if smart, should be rich, an
Able crook, however rich, is nothing but a damphool! **WILLIS POLK.**

When business is slow for some reason or other,—is the very time to advertise. When your car gets stuck on a muddy bit of road, you don't go and sit on the bank, —you push, to put it across. Do the same with your business.

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it To be out of sight in the commercial world is to be out of mind.

The only road to advancement is to do your work so well that you are always ahead of the demands of your position. Our employers do not decide whether we shall stay where we are or go on and up; we decide that matter ourselves. Success or failure is not chosen for us: we choose them for ourselves.—H. W. Mabie.

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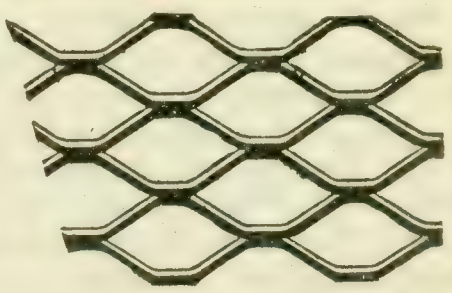
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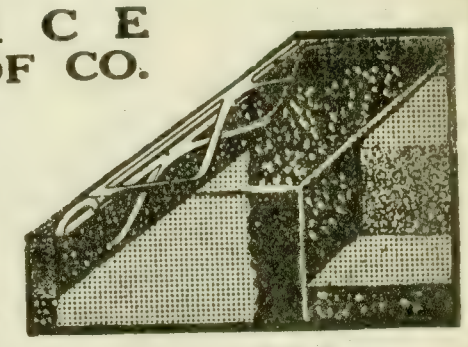
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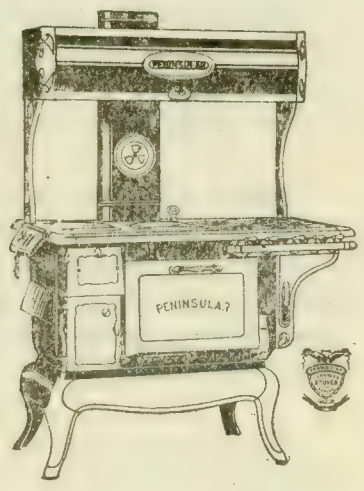
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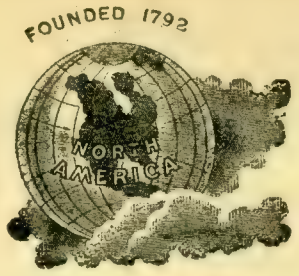
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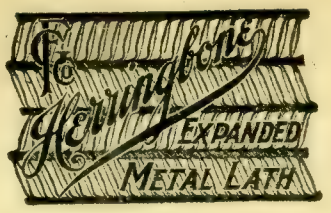
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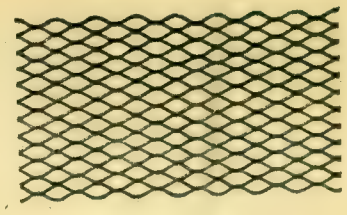
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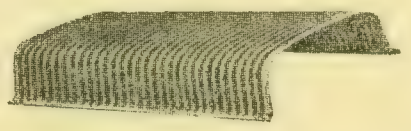
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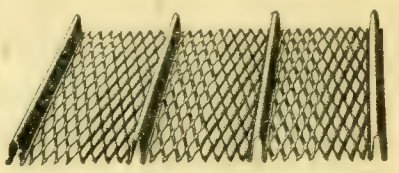
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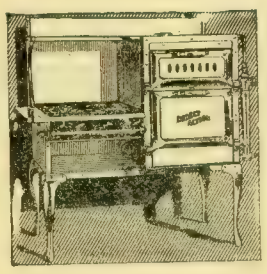
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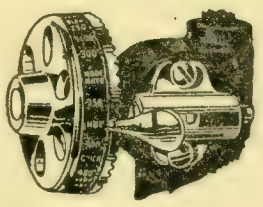
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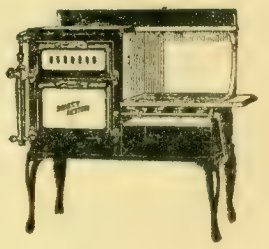
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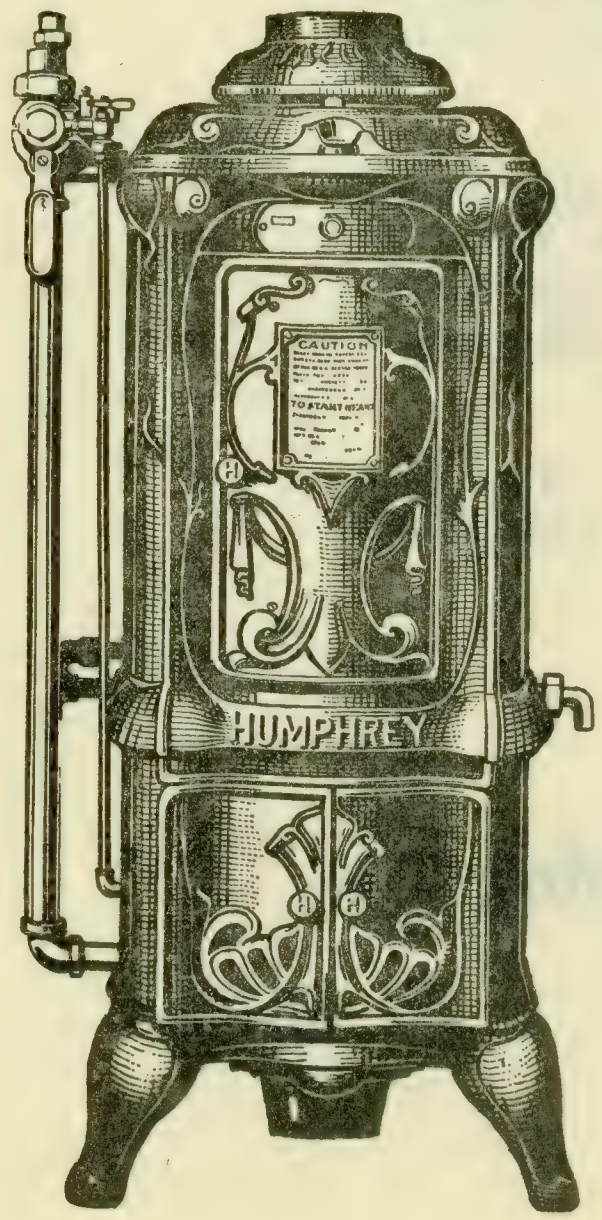
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Neely, Richard R.	1619 Chestnut St. Spruce 6450.
Neff, Conrad F.	16th and Sansom Sts. Spruce 3128.
Newbauer & Supovitz	929 Chestnut St. Walnut 4878.
Nichols Frank V.	4400Manayunk Ave. Roxboro 941W.
Oelschlager, Charles E.	1615 Walnut St. Locust 2310.
Okie, R. Brognard	Crozer Bldg. Spruce 553.
Ott, Edgar F.	Crozer Bldg. Spruce 553.
Otto, Karl F.	Foulkrod and Oakland Sts., Fkd. Frankford 936.
Parker, Harry	129 S. 5th St. Lombard 4114.
Parry, Oliver Randolph	Builders' Exchange Market 2443.
Peddle, Charles R.	136 S. 4th St. Lombard 3938.
Pepper, R. H.	1963 Laveer St. Oaklane 135J.
Peuckert & Wunder	310 Chestnut St. Lombard 3680. Main 290.
Phillips, Watson K.	430 Walnut St. Lombard 1891.
Plack, W. L.	1208 Chestnut St. Filbert 4789.
Pollock, Robert W.	1802 Chestnut St. Spruce 3682.
Potter, Wm. Woodburn	Real Estate Trust Bldg. Walnut 5057.
Price, Walter F.	136 S. 4th St. Lombard 719.
Price & McLanahan	Bellevue Court Bldg. Spruce 4553.
Prichett, William C.	416 Walnut St. Lombard 1683.
Rabenold, Charles F.	1524 Chestnut St. Spruce 3662.
Rankin, Kellogg & Crane	1012 Walnut St. Filbert 5130.
Reinhold, Henry L.	1513 Walnut St. Spruce 3693.
Richards H. Courcy	Presser Bldg. Spruce 1880.
Ritcher & Lee Co.	32 S. 17th St. Locust 329.
Ritter & Shay	North American Bldg. Filbert 4701.
Rommel, Frank A.	1524 Chestnut St. Spruce 2889.
Roth, G. B.	1629 Chestnut St. Spruce 6564. Race 1819.
Rothschild, Edwin L.	1011 Chestnut St. Walnut 3273.
Rithschild, LeRoy B.	1225 Sansom St. Walnut 3084.
Rush, Louis	Middle City Bldg. Locust 2419.
Salter, Edmund D.	Parkside and Wynnefield Aves. Belmont 6320.
Sauer, Andrew J., & Co.	908 Chestnut St. Walnut 894.
Savage, George E.	Witherspoon Bldg. Walnut 4399.
Savery, Addison H.	Stephen Girard Bldg. Walnut 3947. Race 2738.
Savery & Scheetz	Stephen Girard Bldg. Filbert 3736. Race 1661.
Schaef, Charles H.	Penfield Bldg. Filbert 2342.
Schenck, Albert F.	Real Estate Trust Bldg. Walnut 3986.
Schermerhorn, C. E.	430 Walnut St. Lombard 1891.
Seeburger, Frank	1524 Chestnut St. Spruce 3662.
Seeler, Edgar V.	101 S. Juniper St. Filbert 2972.
Sellers, Horace Wells	Stephen Girard Bldg. Walnut 3140.
Sharpley, Walter Williams	1713 Sansom St. Spruce 1880.
Simon & Simon	249 S. Juniper St. Filbert 3910. Race 1845.
Sims, Joseph Patterson	1627 Sansom St. Spruce 5063.
Smedley, Walter	Stephen Girard Bldg. Filbert 4368.
Smith, Charles	411 Walnut St. Lombard 3604.
Smith, Livingston	34 S. 17th St. Spruce 159.
Smith W. Frisbey	Broad and Arch Sts. Spruce 4643.
Stackhouse, H. Rex	129 S. 5th St. Lombard 3612.
Stearns & Woodnutt	Stephen Girard Bldg. Walnut 3612.
Steele, Wm., & Sons Co.	1600 Parkway Spruce 267. Race 1231.
Stevens, Benj. R.	1737 Filbert St. Spruce 1695.
Stewardson & Page	316 Walnut St. Lombard 2354.
Street, J. Fletcher	129 S. Fifth St. Lombard 4114.
Stuckert & Co.	Crozer Bldg. Spruce 1263. Race 2267.
Taylor, Ellery K.	1627 Sansom St.
Taylor, John Howard	4920 Warrington Ave. Woodland 1504.
Thomas, Walter H.	130 S. 15th St. Locust 372.
Thompson, J. Wilmer	703 S. 60th St. Woodland 4167W.
Thompson, William Heyl	1220 Locust St. Walnut 5752.
Tilden & Register	Franklin Bank Bldg. Spruce 889.
Tourison, Bart	222 E. Mt. Pleasant Ave. Chestnut Hill 1198.
Trout H. Clifton	Stephen Girard Bldg. Walnut 2489.
Trumbauer, Horace	Land Title Bldg. Spruce 1162. Race 175.
Tunis & Genther	Real Estate Trust Bldg. Walnut 5458.
Tyre, Philip S.	1509 Arch St Spruce 6336.
Van Hook, George M.	411 Walnut St. Lombard 3604.
Wallace & Warner	1012 Walnut St. Filbert 4449. Main 239.
Ward, Alfred Lewis	Stephen Girard Bldg. Filbert 2868.
Watson, Frank	1211 Walnut St. Filbert 2826.
Webber, Frederick	Morris Bldg. Spruce 3169. Race 3680.
Wetherill, Herbert J.	430 Allen Lane Chestnut Hill 1464W.
White, Ralph E.	Penna. Bldg. Locust 1384.
Wightman, Edgar A.	1213 Filbert St. Locust 2940.
Willing, Charles	1627 Sansom St. Spruce 5063.
Wilson, E. Allen	1208 Chestnut St. Walnut 1543.
Windrim John T.	Commonwealth Bldg. Filbert 2495.
Wise, Herbert C.	Horner Bldg. Filbert 2856.
Wooters, William H.	816 W. Allegheny Ave. Tioga 3283W.
Wunder, Clarence E.	310 Chestnut St. Lombard 3680. Main 290.
Yardley, E. H.	1713 Sansom St. Spruce 5430.
Yeo, Edwin A.	Stephen Girard Bldg. Walnut 3140.
Zantzinger, Borie & Medary	Otis Bldg. Locust 1101.
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Nicholas, A. J. & Co.	Bulletin Bldg. Locust 5874.
Quinn & Herron	2609 W. Allegheny Ave. Tioga 3813.
Ridpath & Potter Co.	22nd and Cambria Sts. Diamond 9689. Park 4304D.
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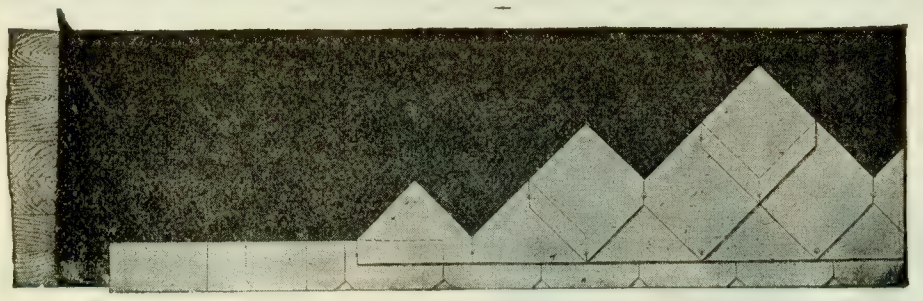
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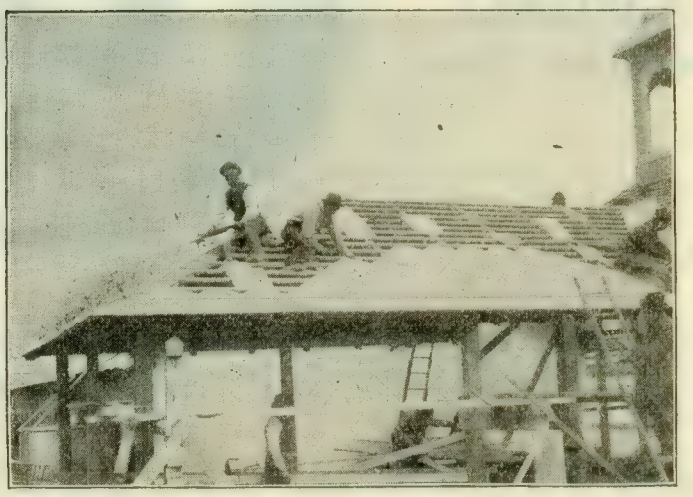
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Asbestos Protected Metal Co.	Real Est. Tr. Bldg. Walnut 582. Race 1377.
Asbestos & Magnesia Bureau	Bulletin Bldg. Locust 5440.
Atlantic Asbestos Co.	133 N. 2nd St. Market 235. Main 1511.
Davis, C. A.	82nd and Bartram Ave. Woodland 1875.
Dominion Asbestos & Rubber Corp.	110 Walnut St. Lombard 1991.
Ehret Magnesia Mfg. Co.	Land Title Bldg. Spruce 2648. Race 1925.
Flotron, Paul E.	Lafayette Bldg. Lombard 3003.
Gerding, George W.	405 Commerce St. Market 1854.
Johns-Manville, H. W. Co.	210 N. Broad St. Locust 1152. Race 4200.
Keasbey & Mattison Co.	1927 Market St. Spruce 976. Race 671.
Livezey, John R.	1933 Market St. Locust 155. Race 3520.
McClure, John H.	1921 E. Atlantic St. Frankford 2541.
Miller, William L.	Bourse Bldg. Lombard 490.
National Asbestos Co.	5534 Lena St. Germantown 5405. North 199.
New Jersey Asbestos Co.	121 Walnut St. Lombard 2009. Main 4117.
Robertson, H. H. Co.	Real Estate Trust Bldg. Walnut 582. Race 1377.
Steelman, W. E. Co.	North American Bldg. Filbert 2664. Race 2336.

Asphalt.

Bell Phone.	Key. Phone.
American Insulation Co.	Roberts and Stokley Sts. Tioga 8700. Park 335.
Atlantic Refining Co.	1211 Chestnut St. Walnut 5610. Race 531.
Barber Asphalt Paving Co.	239 N. 30th St. Preston 3586.
Drehmann Paving Co.	2622 Parrish St. Poplar 1333. Race 2380.
Headley W. T.	Franklin Trust Bldg. Locust 2366.
Texas Co.	Harrison Bldg. Locust 497. Race 1631.
U. S. Asphalt Refining Co.	Colonial Trust Bldg. Locust 734.

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(See Cement Paving.)

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Bartlett & Co.	1938 Market St. Locust 2665. Race 134.
Borden Stove Co.	1313 Arch St. Spruce 3348. Race 2076.
Davis, Garfield W.	18 S. 7th St. Market 674. Main 5571A.
Ehrenzeller, Chas. H.	Builders' Exchange Walnut 4548.
Lovekin Water Heater Co.	39 Laurel St. Market 2730. Park 1612.
Philadelphia Gas Range Co.	13th and Arch Sts. Spruce 2250. Race 2251.
United Gas Improvement Co.	Broad and Arch Sts. Locust 1300. Race 30.

Automatic Sprinklers.

Automatic Sprinkler Co. of America,	328 Chestnut St. Lombard 1626. Main 36.
Fire Protection Survey Bureau	106 S. 4th St. Lombard 839.
General Fire Extinguisher Co.	Stock Exch. Bldg. Spruce 1428.
Globe Automatic Sprinkler Co.,	2035 Washington Ave. Dickinson 531. Race 1350.
Independent Aetna Sprinkler Co.	2323-25 N. 11th St. Diamond 6876. Park 1609.
Vogel, H. G.	25 S. Orianna St. Lombard 1517. Main 4367.

Automobile Turntables.

Canton Foundry & Machine Co.	831 Witherspoon Bldg. Walnut 1274. Race 1974.
Lederle, Robert B.	Witherspoon Bldg. Walnut 1274. Race 1974.

Bank and Office Fixtures.

Bell Phone.	Key. Phone.
Anderson Woodworking Co.	1631 Ludlow St. Spruce 4082.
Basch & Co.	1426 S. Front St. Dickinson 1234. Main 4120.
Gerry, Frederick R., Co., The	1835 Market St. Dickinson 874. Race 1166.
Interior Milling Co.	2531 Poplar St. Poplar 4294. Race 269.
Jansson, Erik & Co.	857 E. Girard Ave. Kensington 1127. East 534.
Kramer Woodworking Co.	4th and Lehigh Kensington 3100. Park 1722.
Office Equipment Co.	Bulletin Bldg.
Petterson, J. C.	627 S. 49th St. Woodland 7145.
Segall & Sons	8th and Master Sts. Market 4073. Park 1376.
Sjostrom, John E. Co., Inc.	1715 N. 10th St. Diamond 4710. Park 14.
Snedaker, Frank C. Co.	9th and Tioga Sts. Tioga 3810. Park 203.
Tarlo Robt., & Son	413-15 S. 5th St. Lombard 3699. Main 4558.
Werkheiser, P. C.	9th and Sansom Sts. Filbert 3878.
Winneberger, G., & Son	252 S. 3rd St. Lombard 2438. Main 5948D.

Blower Systems for Exhaust, Ventilating, Etc.

American Blower Co.	Penfield Bldg. Filbert 2719. Race 1825.
Bayer Steam Soot Blower Co.	1524 Chestnut St. Spruce 812.
Buffalo Forge Co.	Land Title Bldg. Spruce 3192. Race 2051.
Coppus Eng. and Equip. Co.	Bourse Bldg. Lombard 490.
Dash & Abrams	435 N. 60th St. Belmont 8457.
Diamond Power Spec. Co.	Bourse Bldg. Lombard 490.
Kinetic Eng. Co.	60th and Baltimore Ave. Woodland 81.
Lebran Blower Factory	511 Master St. Diamond 4320.
Massachusetts Blower Co.	205 S. 9th St. Walnut 6743.
McClave-Brooks Co.	Morris Bldg. Spruce 430.
Ohio Blower Co.	136 Chestnut St. Lombard 3758.
Phila. Steam Heating Co.	Juniper and Cherry Sts. Locust 4576. Race 3414.
Staub, C. H.	Wayne and Berkley Sts. Wyoming 1328. North 93.
Sturtevant, B. F. Co.	135 N. 3rd St. Market 1430.
Victor Eng. Co.	Harrison Bldg. Locust 2719.
Wing, L. J., Mfg. Co.	Penna. Bldg. Spruce 5830. Race 1781.

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Barclay Bros.	1515 Sansom St. Spruce 4816. Race 2773.
Barclay, Joseph H., Co.	4834 N. Broad St. Wyoming 5882J.
Blue Print Co.	1520 Sansom St. Spruce 5293. Race 962.
Defiance Mfg. Co.	227 S. Broad St. Walnut 1325. Race 424.
Dietzgen, Eugene Co.	12th and Sansom Sts. Filbert 2407.
Electric Blue Print Co.	1515 Sansom St. Locust 2180.
Keystone Blue Paper Co.	910 Filbert St. Filbert 4704. Race 1795.
National Blue Print Co.	38 S. 6th St. Market 1900. Main 569.
Quaker City Blue Print Co., Ltd.	29 N. 13th St. Locust 5545. Race 3584.
Rexim Co., Inc.	908 Chestnut St. Walnut 3732. Main 3420.
Robbins, Charles H., Jr.	1209 Arch St. Spruce 1256. Race 614.
Technical Supply Co.	925 Columbia Ave. Diamond 7211.
Weber, F., & Co.	1125 Chestnut St. Filbert 3603. Race 278.
Weil, J. H., & Co.	1304 Arch St. Locust 5750. Race 3710.
Williams, Brown & Earle	918 Chestnut St. Walnut 6830. Main 4525.

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(See Furnaces, Boilers and Radiators.)

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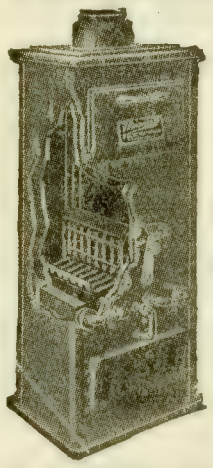
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Keystone Phones: Race 3520, Race 3521

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Ehret Magnesia Mfg. Co.	Land Title Bldg. Spruce 2648. Race 1925.
Flotron, Paul E.	Lafayette Bldg. Lombard 3003.
Johns-Manville, H. W. Co.	210 N. Broad St. Locust 1152. Race 4200.
Keasbey & Mattison Co.	1927 Market St. Spruce 976. Race 671.
Livezey, John R.	1933 Market St. Locust 155. Race 3520.
Steelman, W. E. Co.	North American Bldg. Filbert 2664. Race 2336.

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(See Surety Bonds.)

Brick Manufacturers and Dealers.

Baird, A. S.	24 S. 7th St. Market 2443. Main 1525.
Bay State Brick & Cement Coating Co.,	Weightman Bldg. Spruce 973.
Boulevard Brick Co.	Summerdale Station Frankford 242.
Brady, John F.	Crozer Bldg. Locust 2214.
Byrne, Jos. T., Est.	29th and Clearfield Sts. Diamond 7999. Park 1014.
Carroll, H. C. & Sons	67th and Gibson Ave. Woodland 4.
Collingdale Brick Co.	Franklin Trust Bldg. Spruce 2726. Race 353.
Conway, Wm.	5800 Walnut St. Belmont 218. West 303.
Dobbs, S. B.	Bailey Bldg. Walnut 925. Race 2014.
Earley, John E.	Nicetown Lane Kensington 6692.
Eastern Contractors' Supply Co.,	Commercial Tr. Bldg. Spruce 5357.
Frankford Brick Works	Torresdale Ave. Frankford 572.
General Refractories Co.	Real Estate Trust Bldg. Walnut 60.
Goodwin, John A.	27th and Tioga Sts. Tioga 2238.
Harbison-Walker Refractories Co.	Morris Bldg. Spruce 4794.
Harding, Wm. S.	Witherspoon Bldg. Walnut 4541.
Hatten, Owen	9th and Fishers Lane Wyoming 502.
Heavey, Chas. D.	514 N. 61st St. Belmont 7424.
Hydraulic Press Brick Co.	Real Estate Tr. Bldg. Filbert 3135. Race 976.
Independent Brick Co.,	Broad St. Bank Bldg. Trenton, N. J. Trenton 1469.

Brick Mfrs. and Dealers—Continued.

Jarden Brick Co.	Land Title Bldg. Spruce 2459. Race 1244.
Ketcham, O. W.	Builders' Exchange Market 2470. Main 1738.
Keystone Brick Co.	Godfrey, E. of 2nd St. Pike Frankford 234.
Leuten Brick Co.	25th and Passyunk Ave. Dickinson 653. Race 1151.
McAvoy Vitrified Brick Co.	1345 Arch St. Spruce 1090. Race 1090.
National Park Brick Co.	Real Estate Trust Bldg. Walnut 3236.
North Phila. Brick Works,	Rising Sun and Luzerne St. Tioga 2341. Park 145.
Pardee, John S. E.	Heed Bldg. Locust 5725-5572.
Phila. Brick Co.	25th and Passyunk Ave. Dickinson 690. Race 1402.
Phila. Vitrified Brick Co.	Finance Bldg. Spruce 5550.
Reid, A. S., & Co.	Morris Bldg. Spruce 646. Race 1984.
Remmey, Richard C., Son Co.,	Delaware Ave. and Hedley St. Kensington 6605. East 324.
Sayre & Fisher Co.	1215 Filbert St. Locust 5528.
Seitter's F., Sons	Nicetown Lane and G St. Kensington 6667. Park 1526.
Siner, H. M. & C. B.	Church and Tacony Sts. Frankford 1439W.
Struse, C. O., & Sons	Rosina and Roxborough Roxborough 1853. North 4325A.
Tomkins Bros.	Penna. Bldg. Locust 6780.
Webster & Keyser	30th and Tasker Sts. Dickinson 687. Race 1017.
Williams Grove Brick Co.	Otis Bldg. Spruce 507.
Wilson, F. G., & Son	Penfield Bldg. Walnut 5737.
Young, Chas. A.	1928 Point Breeze Ave. Dickinson 786.

Brick Masons.

Anastasi, Placido	1014 Mountain St. Dickinson 4181.
Ardis, Albert A. Jr.	219 S. 5th St. Lombard 4626. Main 2893.
Atkins, Edw.	249 S. 24th St. Locust 686. Race 330.
Atkinson, Roger	Builders' Exchange Market 1277. Main 495.
Barndt, Charles N.	3957 N. Franklin St. **Tioga 6224J.**
Bauman & Leeds	8th and Parrish Sts. Market 3154.
Bechtel, Joseph.	N. W. Cor. 15th and Race Sts. Spruce 5215.
Berlingieri & Anastasi Co.	1929 S. 10th St. Dickinson 2964.
Cantona, Felix	1720 Cayuga St. Wyoming 516.
Chapman, Wm. R., & Sons.	1506 Washington Ave. Dickinson 535. Race 3054.
Collier, Fredk. T.	202 W. Rubican St. Wyoming 5132W.
Crozier, Geo. W., Jr.	114 N. 6th St. Market 2476.
DeVincentis, Chas.	709 Christian St. Filbert 2438W. Main 2994.
DiGiacomo, Philip	2006 W. Clearfield St. Tioga 2861.
Dorsey & Smith	111 N. 7th St. Market 463. Main 385.
Drummond, Thos. L.	2349 Mifflin St. Dickinson 4706.
Duffy, Albert	1222 Fairmount Ave. Poplar 3857.
Erwin, Wm. J.	5927 Kingsessing Ave. Woodland 3618.
Flury, George B.	1708 Diamond St. Diamond 1608.
Geist, Fredk.	3409 N. 2nd St. Kensington 630W.
Glenn, J. Temple	524 Walnut St. Lombard 1227.
Greenway, Oliver C.	8116 Chelwynde Woodland 1599.
Haas, William	609 W. Somerset St. Tioga 4572.
Harrar, Nathan D.	145 N. 56th St. Belmont 5488.
Harris, Franklin M., & Co.	1520 Parrish St. Poplar 2118. Race 3004.
Haws, George W.	1843 Poplar St. Poplar 232.
Hoctor, James F.	4625 Lancaster Ave. Belmont 1150W. West 4466A.
Hyman, Jacob	432 Jackson St. Dickinson 7059J.
Kelly, P. H.	Terminal Building Locust 5893. Race 1762.

Brick Masons—Continued.

Bell Phone.	Key. Phone.
Lorenzon Bros.	17 E. Abington Ave. Chestnut Hill 542.
Louderback, H. K. & Bro.	2104 S. 19th St. Dickinson 5638.
McChesney & Biddle	616 Race St. Market 533. Main 1054.
Mandes, Joseph Bros. Co.	34 S. 17th St. Spruce 4271.
Manuel, W. N.	5849 Ellsworth St. Woodland 793W.
Monaghan, A. J.	2615 N. 6th St. Kensington 582W.
Morris, George E.	2328 Montgomery Ave. Diamond 5885.
Ploucher, John J.	4941 Willow St. Frankford 1311.
Quinn, James J.	1737 Filbert St. Spruce 176. Race 4429.
Rayner, William F. & J.	4128 Pechin St. Roxboro 73.
Regan, Thomas J.	34 S. 17th St. Locust 4119.
Reckitt, Wm. G., & Co.	2425 W. Cumberland St. Diamond 4559.
Reis Joseph	1331 N. Front St. Kensington 3132.
Rosen, Joseph	5216 Parkside Ave. Belmont 5981W.
Sillers, John S.	2020 Alter St. Dickinson 1621.
Sinclair, Fredk. W.	1627 Winter St. Spruce 1827. Race 3509.
Snyder, L., Sons	260 N. Marvine St. Walnut 3747.
Sussman, Max	980 N. 7th St. Market 1644.
Taylor, W. H. Harrison	17th and Wallace Sts. Poplar 1177.
Tighe, John C.	1532 Kerbaugh St. Tioga 5390.
Toll Bros.	4201 Leidy St. Belmont 8519W.

Brick and Stone Pointing.

Brunetti, P., & Co.	4834 Lancaster Ave. Belmont 8536W.
Carlson, John G.	4067 Haverford Ave. Baring 561.
Christensen Adolph	1433 Brown St. Poplar 153.
Ebinger, Gaspar	1607 N. 2nd St. Kensington 1916. Park 506.
Gallatig, John	447 W. Dauphin St. Kensington 482.
Gallatig, Jacob	2321 N. 6th St. Diamond 5139.
Kurtz, Peter	2343 N. 5th St. Kensington 5333.
McCann, John, & Bro.	1808 Ludlow St. Spruce 531.
Mann, M. J.	4206 Chestnut St. Preston 4201.
Scharer, Jacob	921 N. 13th St. Poplar 772.
Sheperd, William H.	2032 E. Huntingdon St. Kensington 2091.
Simmons, Charles	1939 Ridge Ave. Poplar 4027.

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Bell Phone.	Key. Phone.
Achuff, Frank	1600 N. Front St. Kensington 5100.
Acme Const. Co.	2025 N. 63rd St. Belmont 5790.
Ahlers, Lewis, Jr.	4433 Salmon St. Frankford 156.
Ajax Construction Co.	Abbott Bldg. Locust 4143.
Allison, Frank W.	265 S. 20th St. Spruce 4199.
Anstine, W. W., & Co.	1218 Filbert St. Locust 1817. Race 260.
Armstrong & Latta Co.	Land Title Bldg. Spruce 903. Race 330.
Ashby, Jos.	2nd St. Pike Fox Chase 90.
Ashton Wm. H.	5th and Fisher's Road Wyoming 3019.
Atlas Contg. Co.	5811 Pine St. Belmont 2299.
Austin Co.	Bulletin Bldg. Spruce 1290. Race 4018.
Bahls, E. F., Co.	1702 N. 13th St. Diamond 2703. Park 87.
Ballinger, R. C., & Co.	218 N. 13th St. Spruce 1781. Race 637.
Bartberger, Chas. F.	1621 Brill St. Frankford 1750J.
Bass, S., & Son	737 Walnut St. Walnut 5994.
Baton, H. E.	1713 Sansom St. Spruce 5710. Race 2825.
Beatty, Robt., & Bro.	2321 E. Fletcher St. Kensington 1793.
Benamy, Max J.	3042 W. York St. Diamond 5160.
Birkelbach Co.	4608 Richmond St. Frankford 447.
Biscoe Warren E.	3954 Ludlow St. Preston 3996.
Boas, F. J.	201 N. Broad St. Locust 4056. Race 4134.
Boorse, Horace B.	665 N. 15th St. Poplar 4005.
Bornstein, B.	1512 N. Franklin St. Diamond 7241W. Park 6303A.
Borthwick, Pringle	8018 Germantown Ave. Chestnut Hill 800-801.
Bottoms, Abel	36th and Walnut Sts. Baring 1067.
Bowden Const. Co.	Presser Bldg. Spruce 5865. Race 2473.

Bell Phone.	Key. Phone.
Brandt, Chas. N.	3957 N. Franklin St. Tioga 6224J.
Brocklehurst, Harry	512 W. Norris St. Diamond 7678. Park 197.
Brooks, John T., Jr.	1554 Etting St. Dickinson 5344.
Broome, Frederick	4003 Sansom St. Preston 3402.
Brosz, Paul	2511 W. Huntingdon St. Diamond 4068.
Brown, Arthur S.	5013 N. 12th St. Wyoming 551.
Brown Const. Co.	4600 Main St. Manayunk 190.
Brown-King Const. Co.	Commercial Trust Bldg. Spruce 645. Race 2544.
Burrell, Horace H.	206 S. Quince St. Filbert 5166.
Campion, Herbert G.	Otis Bldg. Spruce 1789.
Cantrell Const. Co.	Commercial Trust Bldg. Spruce 5357.
Cantrell, Geo. E., Inc.	Real Estate Trust Bldg. Walnut 2557.
Carbery, Thos. J.	Heed Bldg. Locust 4830.
Carhart, A. L.	Penfield Bldg. Walnut 2352. Race 2807.
Carmel, Ephrem	350 Queen Lane Germantown 6272.
Challender, Samuel T.	1542 Pratt St. Frankford 751.
Chambley, Alex.	2057 Summer St. Spruce 637.
Clark & Co.	11 S. 52nd St. Belmont 720.
Clayton, Geo. P.	1817 N. 20th St. Diamond 676.
Chester Const. & Contr. Co.	Otis Bldg. Spruce 1596.
Codori, John A.	1235 Arch St. Spruce 2024.
Cohen, Louis	417 Christian St. Lombard 3280W.
Concrete Const. Co.	1618 Thompson St. Poplar 2239. Park 1406.
Conneen Const. Co.	10 S. 18th St. Spruce 1059. Race 377.
Connor, James	1317 Arch St. Locust 3821.
Cornell, J. S., & Son	Morris Bldg. Spruce 562. Race 1428.
Cramp & Co.	Denckla Bldg. Filbert 2205. Race 166.
Crossan Const. Co.	Land Title Bldg Spruce 3913.
Cunningham & Bartholomew	4326 Paul St. Frankford 1288.
Cuthbertson, Elmer L.	334 Roxborough St. Roxboro 1145.
Dading, Chas. H.	Bellevue Ct. Bldg. Locust 1065.
Dahl, Henry C.	231 S. 8th St. Walnut 1860. Main 6165A.
Daniels, J. Morris	252 S. Juniper St. Filbert 2660.
Davis, F. B., & Son, Inc.	240 N. 16th St. Spruce 1675. Race 2377.
Davis I. K., Co.	6100 N. 20th St. Oak Lane 1202.
Dear, John	4544 Greene St. Wyoming 3072.
Detwiler, Samuel R.	1719 N. 13th St. Diamond 4333J.
Dieterle, J. G.	104 W. Penn St. Germantown 3856.
Dougherty, Geo. C.	1725 Ludlow St. Locust 1372.
Dougherty, Wm. R.	1608 Sansom St. Spruce 1889. Race 748.
Doyle & Co.	1519 Sansom St. Spruce 4728. Race 1559.
Drake, Harry	3139 Frankford Ave. Kensington 2435.
Driscoll, Jas. C., Co.	Middle City Bldg. Spruce 2247.
Duncan, John	920 Walnut St. Walnut 109. Main 6194A.
Dunkelberger, I. A.	71 E. Herman St. Germantown 4112.
Durell, E. Clifford	1713 N. 24th St. Diamond 4791. Park 686.
Easterbrook Wm.	146 N. 4th St. Market 3379. Main 4123.
Eddleman, Wm. H., & Sons	453 Green Lane Roxboro 181.
Elvidge, Fredk., & Son	5522 Germantown Ave. Germantown 3895.
English, Frank G.	1610 N. Carlisle St. Poplar 4577. Park 5124D.

BUILDERS---Continued

Bell Phone.	Key. Phone.
Essick Const. Co.	1345 Arch St. Spruce 4837.
Evans, Geo. H.	45 N. 13th St. Locust 4743.
Evans, Henry G.	1417 N. Warnock St. Poplar 130.
Farbstein, Joseph	908 Walnut St. Walnut 1042.
Fay, Edw., & Son	2 S. Mole St. Spruce 1511. Race 1716.
Feeser, J. H.	1011 Liberty Bldg. Walnut 719.
Fisher J. D.	5424 Thompson St. Belmont 4169. West 627.
Fogarty, Owen	3932 Mt. Vernon St. Preston 3331.
Fonder, Edw. F.	Southampton Road Somerton 124W.
Fossel, Geo. C.	5606 Utah St. Germantown 348.
Fraim, A. P.	319 Market St. Market 1873. Main 1450.
Franklin Eng. & Const. Co.	Flanders Bldg. Locust 6463.
Fretz, A. L., & Son	1213 Filbert St. Locust 6393. Race 738.
Fuller, Geo. A., Co.	Widener Bldg. Walnut 2566.
Forepaugh, Adam	1645 Pratt St.
Gaffney Const. Co.	1927 Poplar St. Poplar 887.
Garthly Bros.	1004 N. 6th St. Market 677.
Gill, Harry, Jr.	2515 Germantown Ave. Diamond 5530. Park 986.
Gill, John N., & Co.	Otis Bldg. Spruce 2814. Race 4146.
Gilpin, Chas.	Harrison Bldg. Spruce 1524.
Gold, M.	1643 N. 33rd St.
Goll, John, & Co.	1539 Filbert St. Spruce 3870. Race 165.
Gorchov, J.	4116 Girard Ave. Preston 3714. West 518.
Gore, Wm. S.	6 N. 41st St. Preston 3732.
Gourley, S.	2108 Nassau St. Poplar 1241.
Graham, Wm. R.	3649 Filbert St. Preston 5519. West 4908A.
Grant, J. Frank	1625 N. 13th St. Poplar 1129.
Grau, H. E., Co.	1707 Sansom St. Spruce 2868. Race 49.
Gray, George	4330 Factory St. Frankford 54.
Gruhler Wm. J., Co.	219 E. High St. Germantown 1170.
Haibach, Philip, Cont. Co.	1261 N. 26th St. Poplar 2102. Race 3004.
Hale, Wm. E.	1636 Ludlow St. Locust 1747.
Hall, E. R.	34 S. 17th St. Spruce 4671
Hall, Frank	71st and Greenway Ave.
Harris, John J.	5620 McMahon St. Germantown 4961.
Harris, Wm. H.	Frankford Ck. and Orthodox St. Frankford 2390.
Harting, Samuel, & Sons	20 E. Johnson St. Germantown 1246.
Hatzfield, Edw. S.	1828 N. 16th St. Diamond 3597.
Hausman, John O.	113 Tasker St. Main 3061
Havens F. A., & Co.	845 N. 19th St Poplar 5206. Race 2372.
Hazlett, Hugh	1701 N. 20th St. Diamond 662.
Hedden, E. J.	Finance Bldg. Spruce 5279. Race 5597D.
Heebner, Geo. K.	1231 Vine St. Spruce 5013. Race 2563.
Henwood, D.	717 S. 63rd St. Woodland 4707J.
Hobert, Henry A.	2620 E. Cumberland St. Kensington 2752. East 4357D.
Hoepfl, John M.	2016 N. 5th St. Diamond 3847.
Hoffman Engr. & Contg. Co.	Penna. Bldg. Spruce 5282.
Hogg Const. Co., Inc.	Denckla Bldg. Walnut 4573. Race 1415.
Holland Edw. V.	1037 S. 54th St. Woodland 4124W.
Hollenback, E. E., Inc.	1804 Brandywine St. Poplar 3467. Race 2193.
Homan, H. John Co.	34 S. 17th St. Locust 1635. Race 1966.
Hoover, F. L., & Sons, Inc.	1023 Cherry St. Walnut 5180. Race 1650.
Hughes-Foulkrod Co.	Commonwealth Bldg. Walnut 3940.
Hurley Bros.	Newtown Sq., Pa. Newtown Square 32.
Hurley, John J., & Co.	4416 Cresson St. Roxboro 664.
Iero, Domenick	519 Christian St. Lombard 2437.
Irwin & Leighton	126 S. 12th St. Locust 4050. Race 3700.
Johnston, James, Co.	1721 Ludlow St. Spruce 4691.
Jones, Wm. J.	2927 N. 5th St. Kensington 5862.
Jordon J. H.	31st and Oxford Sts. Poplar 5338.
Judge, Edw. F.	3003 Richmond St. Kensington 1833.
Kearney, John E.	34 S. 17th St. Spruce 4271.
Keeley, Thos. M.	4411 Germantown Ave. Wyoming 1035.
Kessler, Geo., Cont. Co.	Drexel Bldg. Lombard 2407. Main 51.
Ketcham & McQuade	1029 Brown St. Poplar 2140. Park 1058.
Keystone State Const. Co.	Franklin Bank Bldg. Spruce 411. Race 5190.
Kirschner, Michael	421 Snyder Ave. Dickinson 2173W. Main 1954.
Kober Const. Co.	Middle City Bldg. Locust 2659.
Koelle, Wm. F., & Co.	26th and Oxford Sts. Poplar 2041. Park 5390A.
Kohl, John W.	1401 N. Corlies St. Poplar 4504.
Kreitzburg, E. J.	1345 Arch St. Locust 3875.
Lam Bldg. Co.	1001 Wood St. Walnut 1552. Race 381.
Lamb, Robt. E. Co.	841 N. 19th St. Poplar 3223.
Lawler, P. J.	Bala, Pa. Overbrook 652.
Ley, Fred. T., Co.	Finance Bldg. Locust 6549.
Lindsay, W. W., & Co.	Harrison Bldg. Spruce 3084.
Linker, Wm., Co.	831 Cherry St. Walnut 1500. Main 2899.
Little, Thos., & Son	1713 Moravian St. Spruce 2182. Race 323.
Lofland Clayton	Water and Race Sts. Market 4584. Main 810.
Longacre Const. Co.	Widener Bldg. Walnut 3996.
Loux, Jacob Y.	3731 Old York Road Tioga 4227.
Lupowitz, Jos.	429 Snyder Ave. Dickinson 6478.
MacGregor, Albert D.	1224 Chancellor St. Filbert 4813. Race 2395.
McCann, James	1704 Poplar St. Poplar 2040.
McCaul, Chas., Co.	1715 Sansom St. Spruce 932. Race 3865.
McClintock & Weaver	24 Phil-Ellena St. Germantown 3894.
McCloskey, M. H., Jr., Inc.	1620 Thompson St. Poplar 1473. Park 1535.
McDowell, Wm.	32nd and Ridge Ave. Diamond 3852.
McGaffigan, Daniel	4416 Cresson St. Roxboro 664.
McNamee, Daniel J.	1621 N. 15th St. Poplar 1376.
McShain, John	1610 North St. Poplar 1816. Race 5516D.
McShane Wm. J.	417 S. 13th St. Walnut 1467.
MacDowell, C. W.	2118 Diamond St. Diamond 900.
Mackle-McClelland Const. Co.	Drexel Bldg. Lombard 3777.
MacMillan, Henry	19th St., ab. Thorps Lane Germantown 5887.
MacTavish, Archibald	1513 Pine St. Locust 6699. Race 5845D.
Magee, Michael, & Co.	1600 N. Front St. Kensington 5100.
Mark, F. W., Const. Co., Inc.	Com. Tr Bldg. Spruce 1018. Race 4482.
Melody, Michael, & Son	1322 Race St. Spruce 938. Race 1989.
Mendenhall, Hayes & Son	Drexel Bldg. Lombard 3506. Main 3323.
Mercer, F. T., Co.	1706 Delancey St. Locust 6633. Race 6012D.
Metzger & Fisher	Otis Bldg. Spruce 4681. Race 1328.
Meyers, F. Guy, Co., Inc.	1218 Chestnut St. Walnut 5563. Race 1020.
Mitchell Bros.	2125 Race St. Locust 812. Race 2984.
Monaghan & Losse, Inc.	3016 Chestnut St. Baring 1529. West 599.
Morrison, Samuel	515 W. Erie Ave. Tioga 2274.
Murphy, John J., & Co.	1139 S. Wilton St. Woodland 765.
Myers, Jacob Sons Co.	Witherspoon Bldg. Filbert 3180. Race 3395.
Myers, Jos. F., Jr., & Co.	1237 Ridge Ave. Poplar 4090.
Myers, Willard	2135 E. Firth St. Kensington 1517.
Nardy Co., Inc.	Bulletin Bldg. Locust 5438. Race 230.
Nawn, Hugh, Const. Co.	1211 Chestnut St. Walnut 2014.
Oberholtzer, M. S.	5524 Pulaski Ave. Germantown 2709.
O'Meara, Michael J.	329 S. Broad St. Walnut 6218. Race 1389.
O'Meara Const. Co.	253 S. Quince St. Walnut 206.
Pawling, Geo. F., & Co.	1432 S. Penn Sq. Spruce 5295. Race 1480.
Payne, Geo. F., & Co.	401 S. Juniper St. Filbert 5426. Race 680.
Penn Const. & Eng. Co, Inc.	Bulletin Bldg. Locust 3438. Race 230.
Pennock, Jos. E.	Land Title Bldg. Spruce 1125.
Peterson, R. M., & Son	5114 Germantown Ave. Manheim 3699.
Pierce-Henon Co.	Bulletin Bldg. Locust 2303.
Potts Bros. & Cooperson	129 N. 11th St. Walnut 1240. Race 578.
Price Construction Co.	South Penn Sq. Bldg.
Price, Joseph	2048 Rittenhouse St. Locust 2761.
Pezzillo, Ferdinando	3347 Almond St. Kensington 96.
Phila. Const. Co.	Stock Exchange Bldg. Spruce 2686. Race 3977.
Pomeroy Const. Co.	1609 Ranstead St. Locust 3411. Race 4460.
Raith Const. Co.	302 W. Master St. Kensington 579.
Rea, Harrison C., Co.	147 N. 10th St. Filbert 4964.
Rea, J. Harvey	1019 Appletree St. Filbert 5379.
Reeves, E. Allen	Abington, Pa. Ogontz 1092.
Reich, G. J.	1112 Louden St. Wyoming 18.
Reilly, Thos.	1616 W. Thompson St. Poplar 696. Park 631.
Robbins Cont. Co.	1137 N. Front St. Kensington 4580. Park 1259.
Rogers, J. S., Co.	Drexel Bldg. Lombard 1486. Main 552.
Roth, Geo. S., & Sons	230 E. Gravers Lane Chestnut Hill 158.
Roydhouse-Arey Co.	112 N. Broad St. Spruce 4293. Race 74.
Rozinsky, Nathan	520 Dickinson St. Dickinson 6639W.

BUILDERS---Continued

Builders (Operative)—Continued.

Bell Phone. Key. Phone.

Rush Bros. .....1016 Harrison St. Frankford 1398.
Rust, Harry R. .....724 Ludlow St. Market 2876. Main 3533.
Savar, Philip .....718 Snyder Ave. Dickinson 1251.
Schmid, Mathew .....1308 N. 6th St. Kensington 2276.
Schmitt, Albert .....2449 N. Hancock St. Kensington 1056W.
Schneider, Henry P. .....3713 Old York Road Tioga 4711. North 102.
Schuster, John .....3552 N. 15th St. Tioga 4433.
Seidman, Hyman .....1312 N. 6th St. Kensington 1263.
Shestack, A. .....528 Reed St. Dickinson 3323R.
Shoemaker, Isaac T. .....2419 South St. Spruce 4536.
Smith, Alan G. .....2135 N. 63rd St. Overbrook 1146.
Smith Hardican Co. .....1606 Cherry St. Spruce 2935. Race 3535.
Snare & Triest Co. .....Penna. Bldg. Locust 4520. Race 435.
Snyder Const. Co. .....Fuller Bldg. Spruce 2130.
Sorber's, Geo. A., Son .....18 Harvey St. Germantown 90.
Sorensen, P. A. .....1133 Callowhill St. Walnut 643.
Specht & Sperry .....Heed Bldg. Locust 5753.
Springer, W. O. .....1624 W. Latimer St. Spruce 435. Race 2079.
Standard Const. Co. .....1713 Sansom St. Spruce 4652. Race 5069.
Stang & Mitchell .....Real Estate Trust Bldg. Walnut 3097.
Steele, Wm., & Sons Co. .....16th and Arch Sts. Spruce 267. Race 1232.
Steinhauser, Alfred. Westmoreland and Geneva Sts. Wyoming 2200.
Stewart Bros. .....2526 N. Orkney St. Kensington 3139. Park 4996D.
Stewart, Frank G. .....1619 Sansom St. Locust 1331. Race 2070.
Stokes Bros. .....6723 Musgrave St. Germantown 294. North 4316A.
Sutton & Stephenson ....1317 Washington Ave. Dickinson 403. Race 402.
Sweger, H. E. .....4435 N. Uber St. Wyoming 1565R.
Swerdloff, L. .....228 S. 59th St. Belmont 7222J.
Talley, James S. .....1931 Market St. Locust 682. Race 252.
Thompson, J. P. .....732 N. 40th St. Preston 2522.
Tourison, Ashton S. .....7014 Boyer St. Germantown 569. North 44.
Trafford, Thos. C. .....1613 Sansom St. Spruce 4910. Race 3026.
Turner Const. Co. .....1713 Sansom St. Locust 494. Race 428.
Van Loon, F. W. .....Perry Bldg. Walnut 2327. Race 259.
Wallace, Frank E. .....1220 Chancellor St. Filbert 4485. Race 2904.
Walt, John E. .....204 E. Willow Grove Ave. Chestnut Hill 787.
Walter, J. H. .....168 E. Walnut Lane Germantown 2060.
Wark Co. .....1737 Filbert St. Spruce 5199. Race 2775-77.
Warren-Moore & Co. .....Colonial Trust Bldg. Locust 5640. Race 3175.
Watson, George J. .....905 N. Marshall St. Market 3843.
Wehmeyer, Harry H. ....509 W. Cumberland St. Kensington 2776.
Wendling, Jacob .....5709 Kingsessing Ave. Woodland 7518W.
Werner H. P., & Co. .....3243 Germantown Ave. Tioga 2338.
West, C., & Co. .....1231 Wakeling St. Frankford 1350.
White & Co., Barclay .....1713 Sansom St. Locust 746. Race 776.
Whitehead, A. .....1624 W. Latimer St. Spruce 435. Race 2079.
Whtieside, Rush J., & Sons.....2115 Wallace St. Poplar 2302.
Wholey, D. F. .....1109 W. Indiana Ave. Tioga 3115.
Wiggins, John R., Co., Inc. .....Otis Bldg. Spruce 1596. Race 2842.
Wills-Ludwick Co. .....1708 Sansom St. Spruce 1253. Race 666.

Bell Phone. Key. Phone.

Wilson, J. Sims, & Co. .....1125 Brown St. Poplar 1880. Park 310.
Wintz Frank I. .....1618 N. 27th St. Poplar 5200. Park 633.
Wolverton & Co. .....28 E. Willow Grove Ave. Chestnut Hill 578.
Wright, Wm. C. .....22 Harvey St. Germantown 3307.
Yardley, John M. .....1716 Sansom St. Locust 312. Race 1616.
Yellin, S. .....3125 Montgomery Ave. Diamond 1927.
Young, Milton W. .....Woodbine and P. R. R. Overbrook 565.
Zellfelder, Albert .....151 S. Broad St. Walnut 801. Race 282.
Ziernicki, Anthony .....1632 Hunting Park Ave. Wyoming 584.

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PHILADELPHIA

Bell Phone, Oak Lane 135-J

Abernethy, S. C. .....1328 Chestnut St. Walnut 2435. Race 655.
Armstrong, Charles .....944 S. 58th St.
Armstrong & Wiley .....Lambert and Conlyn Sts. Germantown 5141.
Ashton, Wm. H. .....5th and Fisher's Lane Wyoming 3019.
Aubel, F. & E. .....2503 Germantown Ave. Diamond 5280. Park 5141D.
Baltz, William J. .....15th above Olney Wyoming 2325.
Bauer, H. W. .....5th and Grange Ave. Wyoming 1788.
Bauer, Walter S. .....6607 Lincoln Drive Germantown 4941J.
Beckershoff, Ernest .....1535 N. 59th St. Belmont 7175J.
Brocklehurst, Harry .....512 W. Norris St. Diamond 7678. Park 197.
Bauerle, George J. .....4314 N. 8th St. Tioga 6618J.
Carroll, Ben. L. .....63rd and Arch Sts. Belmont 347.
Carson Bros. .....Locust Ave., below Chew St. Germantown 4569.
Clarke & Craighead .....1734 N. Broad St. Diamond 9129.
Collins, H. P. .....5441 Haverford Ave. Belmont 1796.
Crawford, Daniel, Jr. .....701 N. 63rd St. Belmont 2648.

Bell Phone. Key. Phone.

Davis, I. K. .....6100 N. 20th St. Oak Lane 1202.
Deitrich, Frank, Jr. .....Potter and H Sts. Kensington 303. East 4408D.
Diesel, Harrison W. .....4943 Chester Ave. Woodland 4932. West 6463D.
Downsborough, H. H. .....Weightman Bldg. Locust 5006.
Duff, Thomas .....4666 Wyoming Ave. Frankford 522.
Dreby, Edwin C. .....1145 Harrison St. Frankford 1936J.
Eisele, Joseph B. .....7265 Limekiln Pike Oak Lane 1720.
Eliason, W. L. .....Land Title Bldg. Spruce 1155.
Enburg, James C. .....5200 Wynnefield Ave. Overbrook 931.
Erny, Charles G. .....4159 N. 9th St. Tioga 7721J.
Esham, J. Frank .....5512 Woodland Ave. Woodland 2375.
Fallen, John P. .....449 S. 60th St. Belmont 1965.
Faust, Jacob M. .....4611 N. Broad St. Wyoming 2313.
Feldman, Jacob .....5016 Parkside Ave. Belmont 8132W.
Ferguson, Alex. .....6622 Elmwood Ave. Woodland 6787.
Ferguson, Charles W. .....5913 Walton Ave. Belmont 5573R.
Ferguson, Wm., & Son .....405 S. 21st St. Locust 1895.
Ferguson & Collins .....5400 Willow St. Woodland 4318.
Ferguson & McDowell .....1003 S. 51st St. Woodland 4885.
Fichtner, Chas. H..Westmoreland & Hancock Sts. Kensington 6722.
Fischer's, Wm., Sons. Hutchinson & Ruscomb Sts. Wyoming 4980.
Flood, Edw. T. .....Broad and Venango Sts. Tioga 4249.
Forbes, Hugh .....5916 Catherine St. Woodland 6748W.
Frick, R. G. .....234 E. Wyoming Ave. Wyoming 214.
Gardner, George W. .....511 N. 40th St. Preston 4905.
Gill, Harry, Jr. .....2515 Germantown Ave. Diamond 5530. Park 986.
Goodman, L. W. .....60th and Clifford Sts. Belmont 6167.
Green, Harry .....1511 S. 5th St. Dickinson 1276. Main 151.
Hamilton, Robt. D....Broad and Somerville Sts. Wyoming 3333.
Haddon Heights Real Est. Co....149 S. Front St. Lombard 3608.
Hallowell, Chas. T. .....59th and Carpenter Sts. Woodland 942.
Heist, Harry H. .....18th and Pike Tioga 3760.
Hogan, Daniel E. .....61st and Columbia Ave. Belmont 6625.
Holmes, Joshua M. .....2960 N. Judson St. Diamond 9215.
Irwin, Harold C. .....721 Walnut St.
Johnson, W. Percival .....4039 Lancaster Ave. Preston 3992.
Kelly, John J. .....York Road and Broad St Oak Lane 1504.
Kenin, N. .....5850 Market St. Belmont 8257. West 230.
Kennedy, John M., Jr. .....3025 Boudinot St. Kensington 4728.
Kennedy, Samuel J. .....3105 F St. Kensington 3957W.
Kennedy, Thomas, & Son .....6742 N. Broad St. Oak Lane 372.
Killough, Robert .....Wayne Ave. and Duval St. Germantown 1822.
Kuemmerle, Harry .....310 Morris Bldg. Locust 3141. Race 3470.
Lafferty, Charles H. .....1312 Washington Ave. Dickinson 283. Race 2364.
Land, Charles D. .....28th and Columbia Ave. Diamond 7598.
Liberty Const. Co. ....Ruscomb and Fairhill Sts. Wyoming 957.
Liebrich, William H. .....2840 Ridge Ave. Diamond 4620.
Lister, Morgan .....5612 Germantown Ave. Germantown 91.
Loughran, John, & Sons .....2901 Park Ave. Tioga 5370.
McClatchy, John H. .....Land Title Bldg. Spruce 2568. Race 2230.
McCracken, George H. .....2528 W. Lehigh Ave. Diamond 340.

Builders, Operative---Continued

Bell Phone.	Key. Phone.
McGarvey, John N.	4814 Trinity Place Woodland 399.
McGarvey, Thomas J.	630 S. 56th St. Woodland 1560.
McGinty, J. F.	6423 Lebanon St. Overbrook 1990.
McKibbon, David	2900 Frankford Ave. Kensington 5429.
Maginnis, John	514 Walnut St. Lombard 4883.
Mahon, Charles A.	2117 Chelten Ave. Oak Lane 1710.
Maloney, Martin	4345 Reno St.
Marshall, John J.	1115 Marlyn St. Belmont 5132.
Marshall, Joseph K.	8 S. 52nd St. Belmont 226. West 4378A.
Mayer, Dr. John B.	Broad and Cayuga Sts. Wyoming 7.
Mercer, S. H. Bailey	4901 N. 17th St. Wyoming 3453.
Miller, Morris L.	Commonwealth Bldg. Walnut 2445. Race 3212.
Mitchell, James N.	4 S. Farragut St. Baring 1490. West 461.
Mitchell, Wm.	4 S. Farragut St. Baring 1490. West 461.
Model Building Co.	Morris Bldg. Locust 3141.
Modern Const. Co.	714 S. 20th St. Locust 2513.
Moss & Taylor	58th and Girard Ave. Belmont 3445.
Moyer H. R.	2035 E. Allegheny Ave. Kensington 1683W.
Nahm, George A.	2736 W. Girard Ave. Poplar 402. Race 1657.
Neff, R. W.	6610 Germantown Ave. Germantown 2208.
Oler & Shapiro	57th and Master Sts. West 657.
Orr, James W.	Bustleton Pike Frankford 5.
Osborne, George R.	5017 Willow St. Frankford 1145.
Platt, Charles J. W.	1015 Arch St. Walnut 2052. Race 5530A.
Pletcher, McNally, Boas Co.	5132 Germantown Ave. Manheim 3724.
Pugh, R. H.	5713 Market St. Belmont 1041. West 439.
Reed, Henry S.	1112 Chestnut St Walnut 393. Race 295.
Rees, William E.	Bailey Bldg. Walnut 1929. Race 4458.
Reilly, G. T.	50th and City Line Overbrook 1587.
Rimer, George	4842 Hawthorne St. Frankford 2089.
Rogers, Calvin W.	4826 Walnut St. Preston 2794.
Rusk, E. J.	1018 S. 55th St. Woodland 3086.
Russ, Edw. H., Jr.	921 S. 46th St. Woodland 5711.
Sale, George T.	Penna. Bldg. Spruce 3846.
Schneider, H. P.	3713 Old York Road Tioga 4711. North 102.
Schuler, Clyde A.	3rd and Ashdale Sts. Wyoming 2190.
Scull, William C.	5600 Willows Ave. Woodland 4728.
Shenkman, Jacob	Duncannon and American Wyoming 2358.
Shisler George W.	11th and Wolf Sts. Dickinson 105.
Shoemaker, Samuel	Land Title Bldg. Locust 1521.
Siegel, C. R.	47th and Larchwood Ave. Woodland 4643. West 255.
Simon, Burton C.	19th and Passyunk Ave. Dickinson 961. Race 1956.
Singer, A.	37 S. 59th St. Belmont 697J.
Smith, H. E.	7th and Erie Ave. Tioga 5574. Park 480.
Spayd, Charles I.	20 N. 50th St. Preston 6612.
Stamer, C. E.	Broad below Chelten Ave. Oak Lane 258.
Steltz & Maloney	1208 Chestnut St. Walnut 1543.
Stone, William E.	2069 E. Dauphin St. Kensington 1141.
Stott, Edwin	Roosevelt Blvd. & Rising Sun Ave. Wyoming 500.
Strock, W. E.	Oxford Pike, Fox Chase Fox Chase 426.
Taylor George C.	1005 Wood St. Walnut 7299.
Tomlinson, Howard G.	5th and Chew Sts. Wyoming 1788.
Townsend, Chas.	Rising Sun Lane Fox Chase 350.
Troemner, R. Wallace	5th and Chew Sts. Wyoming 2702.
Walter, James H.	168 E. Walnut Lane Germantown 2060.
Weild, Charles M.	2737 S. 16th St. Dickinson 6680.
Whelan, John M.	Witherspoon Bldg. Walnut 8254.
Whelen, P. J. & James T.	Lincoln Bldg. Walnut 1943.
Whelan, T. J. & J. R.	1011 Chestnut St. Walnut 3877.
Williams, Frank	701 S. 58th St. Woodland 501.
Williams, Frank D.	3819 Pulaski Ave. Tioga 4570.
Wilson, Alex., Jr.	5156 Haverford Ave. Belmont 329.
Wilson, Eagan M.	5156 Haverford Ave. Belmont 329.
Wilson, Robert D., Co.	Franklin Bldg. Walnut 3198.
Woelfel, Charles	614 Cambria St. Tioga 4759.
Wyoming Const. Co.	Baxter Bldg. Spruce 3448.
Zane, A. M.	Land Title Bldg. Spruce 2418.
Zane, Judson M.	Land Title Bldg. Spruce 2418.

Builders' Iron Work.

(See Structural and Ornamental Iron.)

Atlas Erecting & Mfg. Co., 610 Birch St., Camden, N. J. Camden 2949W. Camden 268.

Baizley, John, Iron Works..514 S. Delaware Ave. Lombard 2282. Main 3550.

Belmont Iron Works..22nd and Washington Ave. Dickinson 511. Race 2001.

Berko Bros. .....Randolph and Wood Sts. Market 317. Main 1340.

Biggin, Chas. P. Co., Inc. ....1829-39 Harlan St. Poplar 1877. Park 566.

Creswell, Samuel J., Iron Works, The. 23rd and Cherry Sts. Locust 524. Race 3450.

DeCou, Richard, Co. .....12th and Noble Sts. Poplar 276. Race 4350.

Gensel, Frederick, & Co. .....911-13 Vine St. Filbert 2840. Race 5872A.

Humphreys & Co. .....Front and Tusculum Sts. Kensington 1579. East 559.

McCalla Co., The Harold.....531 N. 4th St. Market 3012. Main 886.

Montgomery Iron & Steel Co. ....1832 N. 9th St. Diamond 5871-72. Park 1747-48.

Morris, Wheeler & Co. .....30th and Locust Sts. Preston 5900. West 680.

Pettit, Frank, Ornamental Iron Works, 809 Master St. Kensington 6652. Park 35.

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Builders Guide

Perry Bldg., Phila., Pa.

BUILDING MATERIALS

See also Sand, Cement, Stone

Established 1888 **Both Phones** Bell, Dickinson 1513 Keystone, Main 1665

DAVID FRANCE CO.

BUILDERS' MATERIALS

Building Lime	Crushed Stone	Flue Liners
Chemical Lime	Crushed & Round Pebbles	Slag and Stone Grits
Bar Sand	Roofing Slag	Fire Clay and Fire Brick
Best Portland Cements	Crushed Slag	Plaster
Jersey Gravel	Roofing Felt and Pitch	

Office and Yard TASKER STREET WHARF Delaware River

Knickerbocker Lime Company



Manufacturers of and Dealers in

Lime, Sand
Plaster, Gravel
Cement, Metal Lath, Etc.

FINANCE BUILDING
PHILADELPHIA

Bell Phone, Spruce 2913
" " Locust 200

Keystone Phone, Race 1512
" " Race 500

Building Materials---Continued

NEWTON SUPPLY COMPANY

MATERIALS FOR BUILDERS

LIME SLAG SAND GRITS GRAVEL PLASTERS

CEMENT FINISHING LIME

DELIVERIES
RAIL, WATER, TRUCK

SHIPMENTS VIA
P. R. R., P. & R., B. & O.

30th and Chestnut Streets

Bell Phone, Preston 2343 Keystone Phone, West 543

Gypsum Products

Builders' Exchange
Philadelphia

Windsor Asbestos Cement, (Neat and Ready Mixed) Windsor Superfine Cement, Windsor Pulp Plaster, Wood Fibre Plaster, Windsor Gypsum Block, Diamond Brand Plaster Board, Special Windsor Cement for Plastering on Concrete.

Oriental Stucco, Ready Finish, Marble Dust, Marble Flour, Terra Alba, Keene's Cement, Agricultural Gypsum, Hydrated Finishing Lime, Portland Cement Dry Mortars.

Plaster of Paris (Calcined Gypsum) for Finishing, Casting, Ornamental Work, and Dental, Surgical and Orthopaedic Use.

J. B. KING & CO.

Bell Phone, Market 3848 Keystone Phone, Main 2932-33

Bell Phone, Tioga 4712
Keystone Phone, Park 1036

Harry W. Gilbert

Builders' Supplies

Cedar Hollow Lime

Sand, Cement, Gravel, Grit,
Hair, Fibre, Plaster,
Stone, Slag, Etc.

Office and Yard
Ninth and Venango Streets
Philadelphia

Building Materials---Continued

Guaranteed Delivery

Lime, Portland Cement, Bar Sand, Jersey Gravel, Pebbles, Pebble Grit, Slag, Slag Grit, Calcined Plaster, Prepared Plaster, Elk Fire Brick and Clay.

F. C. Lotz's Sons

N. W. Cor. American & Dauphin Sts.

Bell Phone, Kensington 2250
Keystone Phone, Park 904

Bell Telephone
Frankford 125

Keystone Phone
East 212

BUILDING MATERIAL

JOHN J. SINN
HERBERT C. SINN

FRANKFORD COAL & LIME CO.

4430 Penn St., Phila., Pa.

Bell Phone.	Key. Phone.
Berry & Foote Co., Inc.	Land Title Bldg. Locust 830.
Binder & Wilson	Drexel Bldg. Lombard 3041.
Bowditch, Walter	Haines and Baynton Sts. Germantown 2269.
Bradley, Walter T., Co.	9th and Thompson Sts. Kensington 5414. Park 741.
Birdsboro Stone Co.	Land Title Bldg. Locust 4587. Race 1092.
Clausen, Wm. H.	27th and Diamond Sts. Diamond 608. Park 837.
Connor, Martin F.	5618 Germantown Ave. Germantown 3236. North 179.
Cook, Charles H.	Comly St. and P. R. R. Frankford 1294.
Cox's, C. A. Sons	2137 N. American St. Kensington 2756. Park 1041.
Crowder, Walter J., Co.	5717 Germantown Ave. Germantown 502. North 67.
DeFrain Sand Co.	Beach and Berks Sts. Kensington 180. East 180.
Dougherty, Cornelius	1207 E. Passyunk Ave. Main 4872D.
Duquesne Slag Products Co.	Commercial Tr. Bldg. Locust 457. Race 2992.
Fairlamb, P. H., Co.	115 S. 30th St. Preston 4537-38. West 184.
Fetter, H. M., Co.	Wayne and P. & R. R. Wyoming 2829. North 86.
France, David, Co.	Tasker St. Wharf Dickinson 1513. Main 1665.
Frankford Coal & Lime Co.	4430 Penn St. Frankford 125. East 212.
Gilbert, Harry	58th and Woodland Ave. Woodland 5252.
Gilbert Harry W.	Hutchinson and Venango Sts. Tioga 4712. Park 1036.
Gransback, Harry	Allegheny Ave. Wharf Kensington 6663.
Hinkle, J. H., & Co.	Hutchinson and Venango Sts. Tioga 4460. Park 517.
Jarden, W. A., & Co.	55th and Lancaster Ave. Belmont 321-1293. West 4696A.
Kerbaugh Lime Co.	1506 Washington Ave. Dickinson 535. Race 3054.
Keystone Plaster Co.	North American Bldg. Walnut 5545. Race 608.
King, J. B., & Co.	24 S. 7th St. Market 3848. Main 2932.
Knickerbocker Lime Co. (Wholesale Sales),	Finance Bldg. Spruce 2913. Race 1512.
Knickerbocker Lime Co.	364 N. 24th St. Locust 200. Race 500.
Loeb, Harry, & Son	33rd and Master Sts. Poplar 1950. Park 1553.
Lotz, F. C., & Son	American and Dauphin Sts. Kensington 2250. Park 904.
National Slag Co.	Widener Bldg. Walnut 2707. Race 4339.
Newtown Supply Co.	30th and Chestnut Sts. Preston 2343. West 543.
Parrott & Esler	526 S. 8th St. Walnut 3018.
Patterson, Robt., & Son,	Cherry St. Wharf, Schuylkill River Locust 917. Race 718.
Peoples, R. J. & A.	25th and Callowhill Sts. Locust 230.
Phila. Building Material Co.	Widener Bldg. Walnut 5770.
Phila. Builders' Supply Co.	2nd & Duncannon Sts. Wyoming 2120.
Phila. Slag Co.	Penna. Bldg. Locust 463. Race 1624.
Phila. Transportation & Lighterage Co.,	119 Walnut St. Lombard 178. Main 228.
Robinson, Stephen, Jr.	Colonial Trust Bldg. Locust 5857-63.
Robinson Thos., & Co.	Real Estate Trust Bldg. Filbert 5346. Race 2917.
Sale, Charles S.	Somerton, Phila. Somerton 54.
St. Martins Coal Co.	7600 Germantown Ave. Chestnut Hill 51. North 4335A.
Shallcross & Christian	2218 Orthodox St. Frankford 1226. East 4581A.
Smith, Edwin A., & Son	1017 Frankford Ave. Kensington 2711. East 438.
Strathmann, Henry E.	8th and Olney Wyoming 436.
Strathmann, Henry E.	Kensington & Lehigh Aves. Kensington 239. East 4244D.
Strathmann, Henry E.	57th and Grays Ave. Woodland 550. West 205.
Struse, C. O., & Son.	Walnut Lane & Cresson St. Manayunk 1805. North 4445A.
Tomkins Bros.	Penna. Bldg. Locust 6780.
Van Brunt Sand Co.	Penna. Bldg. Spruce 1856. Race 120.
Warner, Chas., Co.	Finance Bldg Spruce 4484. Race 639.
West Jersey Sand & Supply Co.	Beach and Marlborough Sts. Kensington 2016. East 595.
Whelen, Jas. J., & Co.	24th and Sedgeley Diamond 765. Park 383.
Wilson & Gardner Co.	5541 Lena St. Germantown 611. North 4360D.

Bulk Windows.

Basch & Co.	1426 S. Front St. Dickinson 1234. Main 4120.
Bernheim, B., & Sons, Inc.	1401 N. 3rd St. Kensington 537. Park 627.
Columbia Cabinet Mfg. Co.	216-18 N. 11th St. Walnut 1136.
Evans, George H.	45 N. 13th St. Locust 4743.
Gerry, Frederick R., Co., The	1835 Market St. Dickinson 874. Race 1166.
Hires-Turner Glass Co.	30th and Walnut Sts. Baring 40.. West 400.
Hobert, Henry A.	2620 E. Cumberland St. Kensington 2752. East 4357D.
Hollweck & Bauer	304 Master St. Kensington 1519.
Kramer Woodworking Co.	4th and Lehigh Ave. Kensington 3100. Park 1722.
Rust, Harry R.	724 Ludlow St. Market 2876. Main 3533.
Weiss George Co.	1220 N. Mascher St. Kensington 6497. Park 1674.

Cabinet and Interior Woodwork.

(See also Millwork.)

A B C Cabinet Making Co.	1415 Germantown Ave. Kensington 1502.
Aaron, Joseph M.	3721 Lancaster Ave. Preston 5657.
Adams, Daniel	2940 N. Marshall St. Tioga 4706. Park 519.
Anderson, C. A.	1629 N. 10th St. Poplar 4326.
Anderson, Ross Co., The J.	2917 N. Broad St. Tioga 4746.
Anderson Woodworking Co.	1631 Ludlow St. Spruce 4082.
Barber, John	220 Chancellor St. Lombard 2337.
Basch & Co.	1426 S. Front St. Dickinson 1234. Main 4120.
Bernheim, A., Co.	1415 Germantown Ave. Kensington 1502. Park 496.
Bernheim, B. & Sons, Inc.	1401 N. 3rd St. Kensington 537. Park 627.
Bolin, John	6411 York Road Oak Lane 1679W.

Cabinet Work—Continued.

Bell Phone.	Key. Phone.
Burgin, Harry F.	124 N. 16th St. Spruce 866.
Cann, Thomas R.	1631 Ludlow St. Spruce 4082.
Carlis, I.	407 Callowhill St. Market 3834.
Chapman Decorative Co.	1608 Walnut St. Spruce 2550.
Columbia Cabinet Mfg. Co.	216 N. 11th St. Walnut 1135.
Dannenberg, Otto.	Lancaster Ave. and Baring St. Preston 5705.
Derad & Co.	307 S. 52nd St. Belmont 7264.
Evans, G. Gerald	19 S. 16th St. Spruce 4184. Race 5709A.
Forman, J. W.	4210 Market St. Preston 6595.
Gerry, Frederick R., Co. The	1835 Market St. Dickinson 874. Race 1166.
Gibson, Wm. E.	3527 Market St. Preston 2554. West 113.
Goodman, D.	227 Quarry St. Market 1017.
Grigg, T. H.	Lancaster Ave. and Baring St. Preston 3762.
Herberg, S. Fred.	1236 Olive St. Poplar 4286.
Hollweck & Bauer	304 Master St. Kensington 1519.
Hosbach, F. W., Cabinet Works.	821 Cherry St. Walnut 2505.
Huskey Mfg. Co.	Columbia Ave. and Howard St. Kensington 1272. Park 685.
Interior Milling Co.	2531 Poplar St. Poplar 4294. Race 269.
Jansson, Erik, & Co.	857 E. Girard Ave. Kensington 1127. East 534.
Klett, John	2601 Poplar St. Poplar 4480.
Kramer Woodworking Co.	4th and Lehigh Ave. Kensington 3100. Park 1722.
Liberty Woodworking Co.	1957 Medary St. Oak Lane 915.
Lloyd, Richard R., Co.	107 N. 22nd St. Locust 1191. Race 2969.
Miller & England Co.	1124 Washington Ave. Dickinson 1398.
Miller & Ott	1029 Ridge Ave. Poplar 832. Race 2798.
Moore, John D.	3436 Sansom St. Baring 1556.
Patterson, W. W.	638 Filbert St. Market 1251.
Phila. Woodworking Co.	312 Columbia Ave. Diamond 1616.
Rieder, Frank & Sons	343 N. 4th St. Market 3360. Main 2628.
Robin, Philip	216 N. 11th St. Walnut 1136.
Robinson, John, & Co.	49 Queen Lane Germantown 5780-81.
Russell, Wm., Woodworking Co.,	16th and Fitzwater Sts. Dickinson 727.
Rust, Harry R.	724 Ludlow St. Market 2876. Main 3533.
Sauer, Edw.	1126 N. Orianna St. Market 1327.
Schaefer, J. M., Sons	500 N. Franklin St. Market 2710.
Scott & Ehmann	2057 N. Marshall St. Diamond 7843.
Sheip & Vandegrift, Inc.	814 N. Lawrence St. Market 2665. Park 167.
Sjostrom, John E., Co., Inc.	1715 N. 10th St. Diamond 4710. Park 14.
Smith, George W., & Co., Inc.	3907 Powelton Ave. Preston 2335. West 735.
Smith, Rayburn, Clark & Co.,	58th and Gray's Ferry Road Woodland 6500. West 570.
Snedaker, Frank C., Co.	9th and Tioga Sts. Tioga 3810. Park 203.
Spaltro, John	1631 Ludlow St. Spruce 4082.
Swenk-Benson Co.	2305 Cherry St. Locust 999. Race 157.
Tarlo, Robt., & Son	415 S. 5th St. Lombard 3699. Main 4558.
Unit Const. Co.	58th and Gray's Ferry Road Woodland 6500. West 570.
Wallace, George B.	216 N. 11th St. Spruce 4399.
Weiss, George, Co.	1220 N. Mascher St. Kensington 6497. Park 1674.
Williams, Charles M.	3422 Lancaster Ave. Preston 6542W.
Wilt, A., & Sons	723 N. Front St. Market 2709. Park 445.
Yeager, Frederick W.	9 S. 36th St. Preston 2849. West 699.
Zeyher, Lewis	1616 North St. Poplar 436.

CARPENTERS

See also Builders

Bell Phone.	Key. Phone.
Allison, J. J.	5009 Catherine St. Woodland 1907.
Altemus, Lemuel	213 E. Tabor Road Wyoming 494.
Barish, Benj.	717 St. James St. Walnut 5931.
Barkan Bros.	926 Snyder Ave. Main 5791A.
Barnes, Harry S.	1449 Louden St. Wyoming 508.
Bassett, Nathan	609 Cherry St. Market 1764.
Bender, Jacob	1817 S. 4th St. Main 1854.
Berger, Harry	2337 N. 31st St. Diamond 5308W.
Bierling, Jacob	3823 Baring St. Baring 1315.
Bobb, Harry	3030 Agate St. Kensington 4197J.
Booz, David C.	1621 N. Conestoga Belmont 8423.
Bradley, P. B.	1117 S. 56th St. Woodland 245.
Brosz, Paul	2511 W. Huntingdon St. Diamond 4068.
Brown, James L.	2132 N. 16th St. Diamond 3687. Park 1084.
Bryan, Wm. J.	276 S. American St. Lombard 3039. Main 3208.
Buchanan, Frank M.	403 Spruce St. Lombard 1376. Main 988.
Burkett, E. V.	1422 S. 52nd St. Woodland 1927.
Bushnell Bros.	2146 E. Norris St. Kensington 2137.
Caie, Alex.	48 E. Chestnut Ave. Chestnut Hill 246.
Cherry, M.	137 N. 10th St. Walnut 3423. Race 581.
Christy, Wm., & Son	1614 McKean St. Dickinson 437.
Clark, C. E.	116 N. Camac St. Locust 4524. Race 1869.
Cook, M. G., & Co.	2303 N. 18th St. Diamond 4695.
Cooper, H., & Co.	411 Tasker St. Main 5034A.
Cooper, W. R.	1737 Filbert St. Race 2775.
Corriston, Wm. D.	1515 N. 53rd St. Belmont 975.
Cowell, W. J.	5112 Crittenden St.
Cowen, James J.	2571 Coral St. Kensington 1985W.
Crecelius, Wm., Jr.	1723 Snyder Ave. Dickinson 2208.
Czdvick, Myer	121 Green St. Market 1398W.
Davis, Charles	1810 Poplar St. Poplar 7757.
Davis, Charles H.	612 S. 20th St. Locust 3007.
Davis, Charles R., & Son	1500 Ellsworth St. Dickinson 711.
Detwiler, E. W.	1858 N. Camac St. Diamond 147.
Diamond Building Co.	1811 Columbia Ave. Diamond 4788.
Dinkelacker, H. F.	1612 McKean St. Dickinson 3122.
Donato, Antonio	809 S. 8th St. Main 1059.
Donato, Charles B.	809 S. 8th St. Main 1059.
Dougless, Leslie	217 N. 6th St. Market 2366.
Dresser, Frank P.	3845 Hamilton St. Preston 5822.
Dromgole, John P.	1108 S. 22nd St. Dickinson 4243W.
Edelstein, Jacob	4th and Morris Sts. Dickinson 279. Main 2130.
Eiler, William L.	1220 W. Ontario St. Tioga 4912.
Engel, John A.	3006 N. 5th St. Tioga 2616.
Erb, William H.	4533 Springfield Ave. Woodland 931.
Ervin, Edw. A.	2055 N. Camac St. Diamond 3841W.
Eureka Contrs. Co.	1806 N. 6th St. Diamond 2819.
Evans, Fred W., Jr.	2119 Germantown Ave. Park 873.
Eves, George	1831 Brandywine St. Poplar 6483W.
Evitts, W. A.	5022 Chancellor St. Belmont 2877W.
Ewing & Enderbrock	321 S. 20th St. Locust 2241.
Feldman, B. A.	910 N. 29th St. Poplar 300.
Ferguson, Wm., & Son	405 S. 21st St. Locust 1895.
Fitzgerald's, James A., Sons	1623 Snyder Ave. Dickinson 982.
Fowler, L. A.	15th and Master Sts. Poplar 2373.
Fox Bros.	4814 N. Broad St. Wyoming 5268J.
Funk, Eugene Y.	1502 N. 21st St. Poplar 238.
Gaertner Jacob	7225 Oxford Ave. Fox Chase 135.
Gamber, Branson V.	17th and Tioga Sts. Tioga 4325.
Gorelick, A.	3876 Wyalusing Ave. Preston 6143J.
Grice, Robert K.	255 N. 52nd St. Belmont 4125.
Guenzel, Herman C.	410 Buttonwood St. Market 1173.
Gum, Charles L.	2546 N. 29th St. Diamond 4920.
Gussman, M.	6111 Pine St. Belmont 4103.
Hamilton & Kapnek Const. Co.	1363 Ridge Ave. Poplar 811.
Hammer, William	1806 N. 6th St. Diamond 2819.
Haskin, H.	965 E. Ontario St. East 4398D.
Heffner, E. A.	6361 Jefferson St., Gtn. Germantown 2046.
Heist & Doherty	1216 N. 11th St. Poplar 1037.
Henderson, Wm. & Son	327 S. 20th St. Locust 2207.
Hess, J. P.	105 S. 2nd St. Main 5906A.
Hobert, Henry A.	2620 E. Cumberland St. Kensington 2752. East 4357D.
Hofmaier, Henry	2247 N. 5th St. Kensington 2115W.
Howard's, James W., Sons	1714 Bainbridge St. Dickinson 5949.
Howden's, John, Son	245 N. 16th St. Spruce 2476.
Hughes, Joseph	38 S. 33rd St. Baring 2063.
Irwin, H. M.	1613 Ranstead St. Spruce 512.
James, Everett H.	1736 Fairmount Ave. Poplar 1094.
Jones, William J.	2927 N. 5th St. Kensington 5862.
Keefer, E. H., & Son	1321 Rodman St. Walnut 1090.
Kennington, George	2435 Hope St. Kensington 5179.
Kirk & Reid	2843 N. Taylor St. Diamond 1488.
Kister, Henry M.	621 Sansom St. Walnut 3064. Main 3662.
Klebanoff, Benj.	1645 Federal St. Race 2659.
Kohl, John W.	32nd and Midvale Sts. Germantown 4999.
Lance, Arthur M.	Haines St., W. of Limekiln Pike Oak Lane 1178.
Lange, Frederick	Dauphin and Woodstock Sts. Diamond 778.
Lange, Walter W.	2310 N. Croskey St. Diamond 8573W.
Lank, Robert T.	300 N. 41st St. West 4364A.
Litman, Nathan	2030 S. 5th St. Main 4968D.
Lofland, Clayton	Water and Race Sts. Market 4584. Main 810.
Lott, William R.	1523 Race St. Locust 3593.
Luff, Samuel L.	1821 Fairmount Ave. Poplar 4647.
Lyon, George C.	631 S. 42nd St. Woodland 5816.
McCoy, John	1215 Summer St. Locust 4127.
McCracken, Robert & Son	66 N. 34th St. Preston 5571.
McDonald, T. J., & Co.	1540 N. Woodstock St. Poplar 6167.
McGarvey, Thomas J.	2146 S. 58th St. Woodland 2674. West 132.
McLane, G. E., Co.	1215 Market St. Locust 5884.
MacBride-Brophy	1341 W. Girard Ave. Poplar 1822.
Mansfield, E. S.	1110 Race St. Filbert 4314W.

CARPENTERS--Continued

Bell Phone.	Key. Phone.
Meingart, Frank M.	5807 Hazel Ave. Belmont 8015.
Mendenhall, Hayes & Son	Drexel Bldg. Lombard 3506. Main 3323.
Meyers, Frank	734 Bainbridge St. Main 6039A.
Monaghan, Thomas B.	2009 Sampson St. Locust 1343.
Monteith, Thomas	5529 Lansdowne Ave. Belmont 790.
Morris, W. V.	711 S. 52nd St. Woodland 2850.
Morrison, Matthew, & Son	2322 N. Howard St. Kensington 258.
Morrow, William	320 Harmony St. Lombard 569.
Mosser, J. D.	1709 Moravian St. Locust 4282W.
Myers, E. E.	4900 Knox St. Wyoming 2782.
Niehenke, John J.	1639 N. 18th St. Poplar 3341.
Norton, Charles G.	2036 Federal St. Dickinson 880.
O'Kane, James J.	2138 N. 15th St. Diamond 1201.
Pancoast, James C.	5031 Arch St. Preston 6528W.
Parker, David	233 E. Hortter St.
Paxson, Harry A.	6006 Market St. Belmont 2738. West 4634A.
Phila. Wrecking & Contracting Co.,	3015 Chestnut St Preston 3366.
Raith, August A.	1415 Germantown Ave. Kensington 1502.
Rea, Samuel J., & Son	1608 Fairmount Ave. Poplar 4861.
Rex, John O.	112 E. Fisher St. Wyoming 3553.
Richards & Shourds	1125 Spring St. Filbert 5478. Race 6003A.
Rinker, Frank H.	416 W. Coulter St. Germantown 3802.
Roberts, Joseph W.	1227 Palethorpe St. Kensington 5586J. Park 4448D.
Roeger, Christian F.	51 N. Hutchinson St. Filbert 3179.
Sadjian, Harry	1585 N. 52nd St. Belmont 1785.
Sagel, Benjamin	3110 Page St.
Sanders, S., & Bros.	519 Richmond St. Kensington 2619.
Scott, Joseph	3933 N. 8th St. Tioga 5912.
Schifter, Stephen	5119 Hoopes St. Belmont 6672W.
Searles, F. S.	5142 Thompson St. Belmont 4020.
Seka, Joseph	14 Highland Ave. Chestnut Hill 835.
Shechtman Bros.	1734 N. 7th St. Diamond 3038J.
Shetzline, Chas. H. & Co.,	Broad, Passyunk and McKean St. Dickinson 394. Race 774.
Shriver, Frank R.	51st & Catherine Sts. Woodland 2120.
Sladen, George E., & Co.	1222 Clover St. Filbert 5389.
Slass, Harry	1809 N. 7th St. Diamond 7730W.
Smith, Charles, & Son	215 N. 50th St. Belmont 339.
Smith, John H.	1033 Cherry St. Dickinson 1315.
Smith, William C.	7016 McCallum St. Germantown 292.
Smythe, Thomas W.	4829 Penn St. Frankford 1477.
Snyder, L. V.	205 Ionic St. Lombard 588.
Sobel, Morris	903 Cherry St. Race 3392.
Sorber Carpentry Co.	18 Harvey St. Germantown 90.
Spenard, A. H.	822 Wood St. Filbert 5482.
Spencer, Abner W.	5449 N. 12th St. Wyoming 682.
Spitz, John	243 N. 11th St. Walnut 6595.
Stevens, William H. C.	1215 Frankford Ave. Kensington 380.
Stewart, George W., & Co.	2119 Germantown Ave. Park 873.
Stoll, Frank A.	1432 Germantown Ave. Kensington 356.
Strachan, Thomas	5108 Hadfield St. Woodland 5573W.
Strode, R. W., & Sons	12 N. 19th St. Spruce 4895.
Taylor, George C.	1005 Wood St. Walnut 7299.
Taylor, Thomas N.	4722 Penn St. Frankford 1178J.
Thayer, George W.	1233 Ludlow St. Walnut 1406.
Thomas, P. W.	1330 Olive St. Poplar 6522W.
Thompson, Floyd	1745 W. Venango St. Tioga 2702.
Thompson, J. B.	1933 Moravian St. Spruce 1579.
Thompson, William N.	1529 Filbert St. Spruce 2969.
Thompson & Waters	1030 W. Ontario St. Tioga 4240.
Urban, John J.	205 Ionic St. Lombard 588.
Vaughan, W. F.	526 Locust St. Lombard 2142.
Virden, B. F.	2917 Fletcher St. Diamond 329.
Warfel, Theo. L.	916 N. 13th St. Poplar 3660.
Warren Bros.	1113 Cherry St. Walnut 1919.
Warren, Alfred E.	28 N. 5th St. Market 932. Main 5912D.
Warren, W. W.	1336 McKean St.
Warshawsky, Abraham	545 N. 7th St.
Weiler, Andrew E.	2754 N. 12th St. Diamond 7368.
Weiss, Joe	215 N. Watts St. Locust 3960.
Wells, C. F., & Son	124 S. 36th St. Preston 2565.
Welsh, John	221 N. 17th St. Locust 2199W. Race 5462A.
Whiteside, Rush J., & Sons	2115 Wallace St. Poplar 2302.
Wilson, A. C.	421 N. 41st St. Baring 884.
Wilson, A. J.	35 S. 45th St. Baring 1280.
Wilson, James H.	1717 Moravian St. Spruce 2722.
Wilson John A., Jr.	1430 N. 12th St. Poplar 451.
Yellin, M.	712 N. Franklin St. Market 1110. Park 384.
Yellin, S.	3135 Montgomery Ave. Diamond 1927.
Yost, Wm. W.	2751 Frankford Ave. Frankford 5350J.
Zaresky, Jacob	7th and Wolf Sts. Dickinson 3591W. Main 3623.

Cement.

(See Building Materials.)

Cement Colors.

French, Samuel H., & Co.	4th and Callowhill Sts. Market 1924. Main 1221.
Imperial Paint Co.	1518 Sansom St. Spruce 5264.

Cement and Concrete Work.

Armstrong, Irvine	1809 S. 22nd St. Dickinson 6092.
Barber Asphalt Paving Co.	239 N. 30th St. Preston 3586.
Belmonte, V.	204 E. Haines St. Germantown 3804.
Boyle, A. J.	4622 Lancaster Ave. Belmont 4595.
Brown Const. Co.	4600 Main St. Manayunk 190.
Carter Paving Co.	641 N. 18th St. Poplar 1698. Race 5432D.
Clymer, Jacob L.	1900 N. Marshall St. Diamond 7868.
Colen, P. M., Co.	3133 W. Norris St. Diamond 2098.
Columbia Paving Co.	1422 Master St. Poplar 1485.
Concrete Const. Co.	1618 Thompson St. Poplar 2239. Park 1406.

Cement and Concrete Work—Cont.

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Bell Phone Poplar 1698 — Keystone Phone Race 5432-D

Bell Phone.	Key. Phone.
Coya Paving Co.	810 Tasker St. Dickinson 353.
DeRenze Paving Co.	6139 N. Woodstock St. Germantown 5924.
Dougherty, James	5849 Cemetery Ave. Oak Lane 226.
Drehmann Paving Co.	2622 Parrish St. Poplar 1333. Race2380.
Drummond, Thomas L.	2349 Mifflin St. Dickinson 4706.
Evans, Ernest H.	6450 Ridge Ave. Roxboro 656W.
Fenner, William D.	1422 Master St. Poplar 1485.
Franz Paving Co.	2nd and Fisher's Road Wyoming 464.
Galbraith Paving Co.	4647 Stenton St. Wyoming 401.
Geshwind, Herbert	761 N. 26th St. Poplar 1703.
Heavy, Charles D.	514 N. 61st St. Belmont 7424.
Heebner, George K.	1231 Vine St. Spruce 5013. Race 2563.
Heins, W. R., & Co.	1713 Moravian St. Spruce 2182. Race 323.
Hinkle, J. H., & Co.	Hutchinson and Venango Sts. Tioga 4460. Park 517.
Houseworth, Jos. E.	2935 W. Lehigh Ave. Diamond 8017.
Jorden, W. M.	129 N. Felton St. Belmont 1262.
Kelly, James	Bulletin Bldg. Locust 5846. Race 2383.
Knowlan, J. F.	45 N. 13th St. Locust 4743.
Krause, Wm.	1623 N. 5th St. Diamond 4161. Park 296.
Lee, Thomas P.	5629 Cherry St. Belmont 418. West 387.
McCoy Cement Paving Co.	240 N. 57th St. Belmont 948.
Mann, M. J.	4206 Chestnut St. Preston 4210.
Massiah, Frederick	1342 Cypress St. Walnut 4165. Race 5534A.
Newell, Martin P.	3032 Aramingo Ave. Kensington 1603W.
Peters, Don	5111 York Road Wyoming 1055.
Reuter, P. N., & Co.	910 W. Tioga St. Tioga 4485. Park 1597.
Ruoff Const. Co.	2nd and Butler Sts. Kensington 791.
Smith, Jos. R., Co.	3102 Euclid Ave. Diamond 4634.

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Bell Phone Spruce 1450 — Pennsylvania Building, Philadelphia — Keystone Race 1772

New York Norfolk Boston

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Bell Phone.	Key. Phone.
Allentown Portland Cement Co.,	Real Estate Trust Bldg.
Walnut 515.	Race 280.
Alpha Portland Cement Co.	Harrison Bldg.
Spruce 4969.	Race 2877.
Atlas Portland Cement Co.	Widener Bldg.
Walnut 5111.	Race 2784.
Bath Portland Cement Co.	Finance Bldg.
Locust 5001.	Race 2362.
Coplay Cement Mfg. Co.	Widener Bldg.
Walnut 1493.	Race 742.
Dexter Portland Cement Co.	Land Title Bldg.
Spruce 5162.	Race 2258.
Edison Portland Cement Co.	Franklin Trust Bldg.
Spruce 6384.	
French, Samuel H., & Co.	4th & Callowhill Sts.
Market 1924.	Main 1221.
Giant Portland Cement Co.	Penna. Bldg.
Spruce 1450.	Race 1772.
Hercules Cement Corp.	Finance Bldg.
Spruce 2066.	
Lawrence Portland Cement Co.	Harrison Bldg.
Spruce 3614.	
Lehigh Portland Cement Co.	Finance Bldg.
Spruce 587.	Race 3558.
Nazareth Cement Co.	Commercial Trust Bldg.
Spruce 3198.	Race 1448.
Penn-Allen Cement Co.	Widener Bldg.
Walnut 5197.	Race 367.
Pennsylvania Cement Co.	Commercial Trust Bldg.
Spruce 2405.	
Phoenix Portland Cement Co.,	Real Estate Trust Bldg.
Filbert 5289.	Race 3979.
Rosacre Mfg. Co.	1013 Filbert St.
Walnut 2343.	
Tidewater Portland Cement Co.	Widener Bldg.
Walnut 2520.	
Vulcanite Portland Cement Co.	Land Title Bldg.
Spruce 2908.	Race 1837.
Whitehall Cement Mfg. Co.	Land Title Bldg.
Spruce 1112.	

Church Furniture.

Bell Phone.	Key. Phone.
American Seating Co.	1120 Chestnut St.
Walnut 1736.	
Chair Exchange Co.	6th and Vine Sts.
Market 2540.	Main 4479.
DeLong-Svoboda Co.	Witherspoon Bldg.
Walnut 2253.	
McDermott, J. J., & Co.	1011 Chestnut St.
Walnut 1529.	
Osterle & Co.	125 S. 11th St.
Walnut 644.	
Phila. Metal Church Goods Co.	1216 Mascher St.
Kensington 1865.	
Ruthenian Catholic Ch. Supply House,	832 N. 7th St.
Market 399.	
Wisler, I. H., & Son	223 N. 6th St.
Market 1558.	

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Keystone Phones, Race 3520, Race 3521

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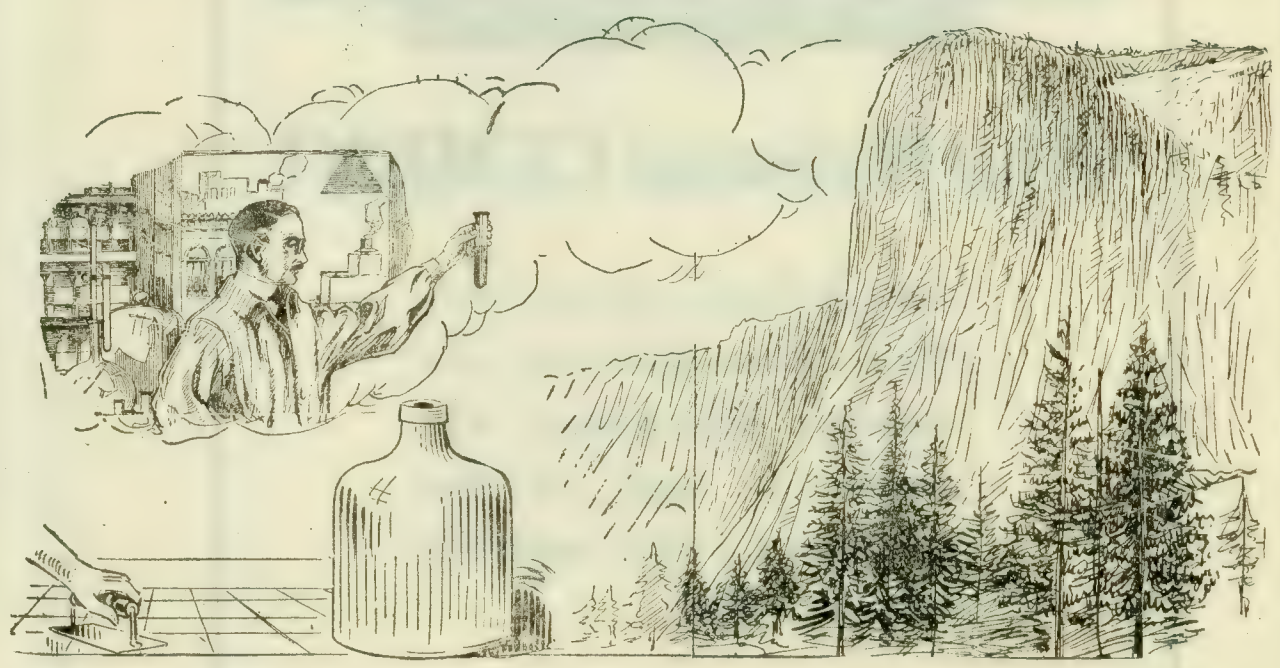
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Independence Hall
Philadelphia

Bell Phone.	Key. Phone.
American Insulation Co.	Roberts and Stokley Sts. Tioga 8700. Park 335.
Flotron, Paul E.	Lafayette Bldg. Lombard 3003.
Keasby & Mattison Co.	1927 Market St. Spruce 976. Race 671.
Livezey, John R.	1933 Market St. Locust 155. Race 3520.
Morrow Insulating Co., Inc.	1215 Filbert St. Locust 5753.
Stone, Junius H.	1530 Chestnut St. Locust 2524.
United Cork Companies	Land Title Bldg. Spruce 4625.
Zenitherm Co., Inc.	1428 S. Penn Sq. Locust 6748.

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Resilient - Wearproof - Sanitary

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Bell Phone, Belmont 182 Keystone Phone, West 649

Composition Flooring---Continued

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Composition Flooring
A PLASTIC TILE

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NEW YORK

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Market 4228

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Bell Phone.	Key. Phone.
American Insulation Co.	Roberts and Stokley Sts. Tioga 8700. Park 335.
Embossed Wall Covering Co.	867 N. 48th St Belmont 6260.
Litolithic Co.	Parkway Bldg. Locust 4296.
Macanite Co. of America	Builders' Exchange Market 369.
Marbeloid Co.	Weightman Bldg. Spruce 973.
Mineraloid Co.	524 Drexel Bldg. Lombard 5114.
Petronite Mfg. Co.	531 N. 9th St. Market 4228.
Phila. Building Material Co.	Widener Bldg. Walnut 5770.
Phila. Mineral Flooring Co., Inc.	5632 Summer St. Belmont 182. West 649.
Woodoleum Mfg. Co.	133 Arch St. Market 701.

Concrete Construction.

(See also Cement Work.)

Baker-Dunbar-Allen Co.	Stock Exchange Bldg. Spruce 5490. Race 1599.
Brown Const. Co.	4600 Main St. Manayunk 190.
Carter Paving Co.	641 N. 18th St. Poplar 1698. Race 5432D.
Concrete Construction Co.	1618 Thompson St. Poplar 2239. Park 1406.
Drehmann Paving Co.	2622 Parrish St. Poplar 1333. Race 2380.
Geshwind, Herbert W.	761 N. 26th St. Poplar 1703.
Heins, Wm. R., & Co.	1713 Moravian St. Spruce 2182. Race 323.
Hinkle, J. H., & Co.	Hutchinson and Venango Sts. Tioga 4460. Park 517.
MacArthur Concrete Pile & Foundation Co.,	Stock Exchange Bldg. Spruce 5713.
Massiah, Frederick	1342 Cypress St. Walnut 4165. Race 5534A.
Penn Concrete Co.,	Mascher St. and Fisher's Ave. Wyoming 3469.
Pre-Cast Concrete Co.	Bulletin Bldg. Locust 5767.
Raymond Concrete Pile Co.	Franklin Trust Bldg. Spruce 2533. Race 3159.
Reuter, P. N., & Co.	910 W. Tioga St. Tioga 4485. Park 1597.
Vulcanite Paving Co.	Land Title Bldg. Spruce 5000.
White, Wm., & Son	1601 Brandywine St. Poplar 2361. Race 3933.

Concrete Hardeners.

Concrete Waterproof Paint Co.	829 N. 3rd St. Market 4525. Park 1730.
General Fireproofing Co.	Bulletin Bldg. Spruce 5837. Race 1546.
Imperial Paint Co	1518 Sansom St. Spruce 5264.
Malmed, A. T., & Co.	18 S. 7th St. Market 3562.
Master Builders' Co.	18 S. 7th St. Market 3582.
Sagendorf Co., Inc.	24th and Walnut Sts. Spruce 3886.

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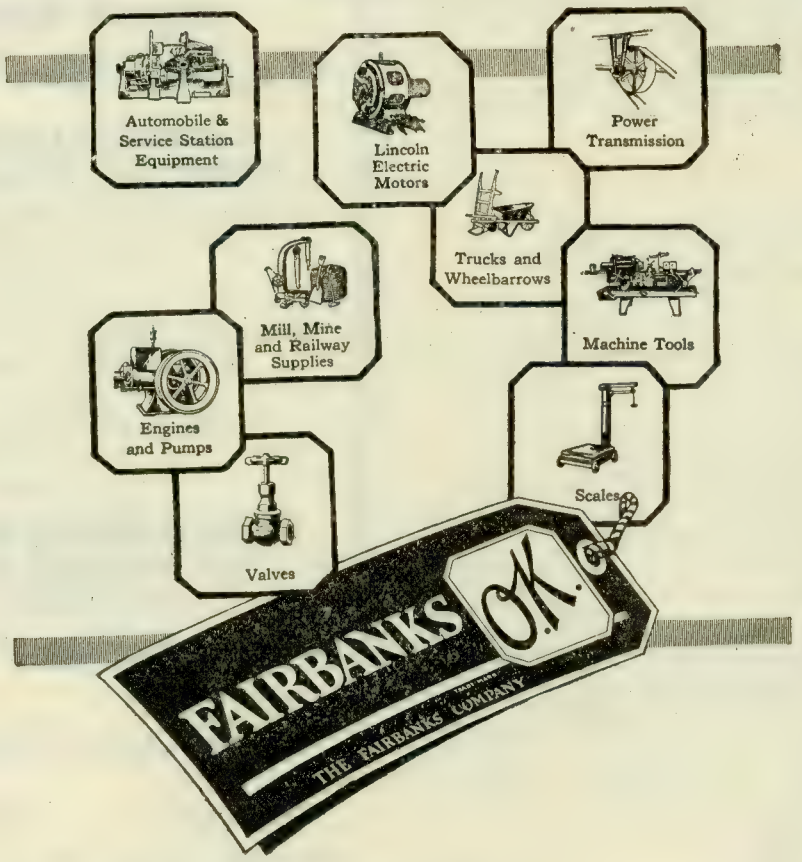
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Calcos Steel & Iron Co.	Crozer Bldg. Spruce 5722.
Chaulk, John J., Co.	506 S. Delaware Ave. Lombard 2173. Main 5686D.
Collieries Supply & Equipment Co.	14 N. 5th St. Market 4280. Main 3300.
Contractors' Machinery & Supply Co.,	Liberty Bldg. Walnut 1145.
Corner, Edward	1080 Beach St. Kensington 971. East 4543A.
Curry, E. R.	Finance Bldg. Locust 2545.
Edelen & Co.	Commercial Trust Bldg. Spruce 3685. Race 3685.
Equipment Corp. of America	Land Title Bldg. Spruce 5498.
Fairbanks Co., The	701 Arch St. Market 2210. Main 1715.
Giles & Ransome	Commonwealth Bldg. Walnut 1964.
Grimshaw, Wm. B., Co.	Drexel Bldg. Lombard 2547. Main 1081.
Hitner's, Henry A., Sons Co.,	Gaul and Hazzard Sts. Kensington 5434. East 1.
Hubbard-Floyd Co., Inc.	Land Title Bldg. Spruce 692.
Koppel Industrial Car & Equipment Co.,	Real Estate Trust Bldg. Walnut 1857.
Lakewood Eng. Co.	Widener Bldg. Walnut 5984. Race 1797.
Lansing Co.	North American and Willow Sts. Market 1822. Main 2320.
Luster Machinery Co.	Widener Bldg Walnut 1191. Race 676.
Pierce, Henry T.	2009 Market St. Locust 1825. Race 2445.
Phila. Steel & Iron Co.	Commercial Trust Bldg. Locust 2356.
Schmidt, C. G. A., Jr.	Land Title Bldg. Spruce 692.
Schramm, Chris D., & Son, Inc.	709 Arch St. Market 3795. Main 3796.

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Service Equipment Co.	Bourse Bldg.	
	Lombard 490.	Main 75.
Seyfert's, L. F., Sons, Inc.	437 N. 3rd St.	
	Market 2966.	Main 1487.
Shannon, J. Jacob, & Co.	1744 Market St.	
	Spruce 1744.	Race 1744.
Staley & Morris	2009 Market St.	
	Spruce 3788.	
Standard Equipment Co.	Widener Bldg.	
	Walnut 2913.	
Standard Scale & Supply Co., The	523 Arch St.	
	Market 3944.	Main 3781.
Standard Supply & Equipment Co.,	13th and Cherry Sts.	
	Locust 4150.	Race 4220.
Terwilliger Equipment Co.	2013 Market St.	
	Locust 1914.	Race 2181.
Ward, Lee T.	619 Filbert St.	
	Market 1216.	Main 451.
Werkheiser, Harry D.	1416 Real Estate Tr. Bldg.	
	Walnut 4506.	Race 975.
Wilson, E. H., & Co.	Commercial Trust Bldg.	
	Spruce 178.	

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Linotile is a composition of clean powdered cork, wood flour, linseed oil, various gums and color pigments. Linotile is a distinctive artistic floor covering—resilient, noiseless, sanitary, durable and moderate in cost.

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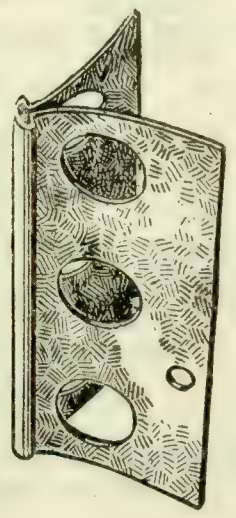
Bell Phones, Locust 155. Locust 434
Keystone Phones, Race 3520, Race 3521

American Insulation Co.	Roberts and Stokley Sts.	
	Tioga 8700.	Park 335.
Kennedy, David E., Inc.	Real Estate Trust Bldg.	
	Locust 3739.	
Livezey, John R.	1933 Market St.	
	Locust 155.	Race 3520.
United Cork Flooring Co.	Weightman Bldg.	
	Spruce 973.	
Zenitherm Co., Inc.	1428 S. Penn Sq.	
	Locust 6748.	

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General Fireproofing Co.	Bulletin Bldg. Spruce 5837. Race 1546.
Pearce Fireproof Co.	1345 Arch St. Locust 3924. Race 4434.
Penn Metal Co., Ltd.	25th and Wharton Sts. Dickinson 4600. Race 1581.
Truscon Steel Co.	Commonwealth Bldg. Walnut 660. Race 3472.

Cornices.

(See Skylight, Cornice and Ventilator Mfgrs. Also Roofing and Sheet Metal Work.)

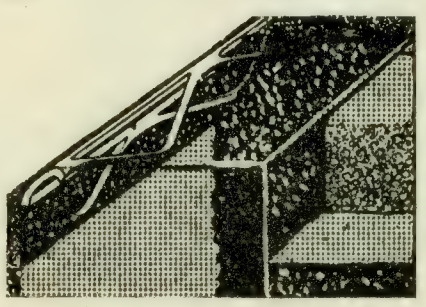
DAILY BUILDING NEWS REPORTS

Daily Building News Reports give you the best advanced construction news obtainable.

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Curb Reinforcements



Our curb reinforcement protects your concrete corners and furnishes reinforcement at the same time.

Expansion Joint Filler
prevents concrete from cracking

Pearce Fireproof Co.
SERVICE
1345 Arch St., Phila.

Bell Phone.	Key. Phone.
Concrete Specialties Co.	26th and Penna. Ave. Poplar 4635. Race 1514.
Pearce Fireproof Co.	1345 Arch St. Locust 3924. Race 4434.
Truscon Steel Co.	Commonwealth Bldg. Walnut 660. Race 3472.

Cut Stone.

(See Stone, Cut.)

Decorators.

Anderson, Miss Rachel Gray	1823 Walnut St. Spruce 5236.
Ashman, Chas. T.	1516 Spruce St. Locust 6821.
Bailey, Theodore L., Co.	260 S. 18th St. Locust 3560.
Belmont, E. A.	254 S. 16th St. Locust 4174.
Benner, John H.	1731 Chestnut St. Spruce 2806.
Boddy, F. E.	1118 S. 47th St. Woodland 1649.
Bonnin's, Louis W., Son	268 S. 20th St. Locust 2445.
Bosler, Miss Marie	225 S. Sydenham St. Spruce 3676.
Brown, Mrs. Emma Sinclair	1823 Walnut St. Locust 2415J.
Butler, James C.	2556 N. 5th St. Kensington 4967.
Campbell & Boyle, Misses	3252 Chestnut St. Preston 2708.
Cedar Decorating Co.	221 S. Edgewood St. Belmont 2207.
Chapman Decorative Co.	1608 Walnut St. Spruce 2550.
Cleveland, Lyman W.	Witherspoon Bldg. Walnut 2694.
Comly, Mrs. Catharine F.	135 S. 18th St. Spruce 4389.
Cottee, H. A.	2134 Columbia Ave. Poplar 4337.

Decorators—Continued.

Bell Phone.	Key. Phone.
Criterion Decorative Co., Inc.,	5th and Girard Ave. Market 2421.
Day Painting & Decorating Co.	223 S. 52nd St. Belmont 4803.
Dubell, I. B.	8 S. 18th St. Locust 878.
Duncan & Duncan, Inc.	1706 Walnut St. Spruce 1616.
Eberhard, Elmer E.	2318 Montgomery Ave. Diamond 4448.
Elgart, A. E.	804 W. Susquehanna Ave. Diamond 8153.
Elkins Decorating Co.	454 N. 8th St. Market 291.
Ervin, A. F., & Sons	1526 N. Broad St. Poplar 2494. Park 4814A.
Evans, G. Gerald	19 S. 16th St. Spruce 4184. Race 5709A.
Fisher, Millard F.	1858 N 12th St. Diamond 3497.
Gary, John C.	19th and Carpenter Sts. Dickinson 6663W.
Getman, John T.	2209 N. 29th St. Diamond 767.
Grandy, Harry A.	422 S. 52nd St. Woodland 4765.
Green, Leo E., & Bros.	1109 Walnut St. Walnut 714.
Griffey Decorative Co.	206 S. 13th St. Walnut 3275. Race 1493.
Haggenbotham, John	1833 Spruce St. Locust 2297.
Harmony Decorators	252 S. 16th St. Locust 2186.
Hawkins, Francis A.	803 N. 46th St. Preston 6364.
Helsinger, Harry	946 N. 8th St. Market 4337.
Hepworth, Walter A.	7116 Germantown Ave. Chestnut Hill 1261.
Hill, Rowland W.	836 N. 24th St. Poplar 1415.
Hinckle, Harry G.	1323 N. Broad St. Poplar 5278.
Jarvis, Margaret E.	20th and Christian Sts. Locust 3163.
Jevons, J. E.	1607 Columbia Ave. Diamond 4741.
Johnson, Walter J., & Co.	1804 Chestnut St. Spruce 5354.
Jones, E. S.	2514 N. 27th St. Diamond 468.
Kayser & Allman	1522 Chestnut St. Locust 552. Race 715-683.
Kier & Co.	1611 Chestnut St. Locust 480.
King, Frederick W., & Co.	1925 N. Broad St.
Klinger, John H.	1637 W. Dauphin St. Diamond 4521.
Langan, Thos.	1822 Cherry St. Spruce 596.
Lindsay, John A.	5926 Haverford Ave. Belmont 1340.
McCandless, James B., Jr.	4512 Baltimore Ave. Woodland 5710.
Master Decorative Co.	5615 Master St. Belmont 2674.
Mathews, Chas.	1607 W. Venango St. Tioga 2339.
Mertz, O. E., & Co.	260 S. 18th St. Locust 1252.
Messick, H. Kay	1603 Walnut St. Belmont 7272.
Miller's Decorative Shop	5816 Girard Ave. Belmont 7272.
Moser, A. J., & Sons	5th and Girard Ave. Market 2421.
Moyer Art & Decorating Co.	41 N. 11th St. Walnut 1120.
Nickelson, N. F.	1511 Pine St. Locust 6746.
O'Brien, J. E., Co.	212 S. 17th St. Spruce 5358.
Owen, Misses	214 S. 15th St. Spruce 1625.
Parke, Edw. T.	1015 Filbert St. Walnut 2854. Race 4264.
Peck, David E.	1236 S. 5th St. Lombard 2652.
Pelham Decorative Co.	6620 Germantown Ave. Germantown 3814. North 4511A.

Decorators—Continued.

Bell Phone.	Key. Phone.
Purdy, Chas. C.	119 S. 18th St. Spruce 1265.
Reid, John W., & Co.	1531 N. Broad St. Poplar 1228.
Richman, J. W., Decorative Co.,	3820 Lancaster Ave. Preston 3781.
Roberts Decorative House.	7114 Germantown Ave. Chestnut Hill 1008.
Rudolph, S. W.	12 S. 40th St. Preston 2414.
Schnitzer, J. F.	1130 Wagner St. Wyoming 5013J.
Schoeppe & Wischan	4525 N. Broad St. Wyoming 1493.
Silverman, W.	1020 S. 2nd St. Lombard 994. Main 4074.
Sklar, Samuel, & Bro.	5848 Market St. Belmont 2687.
Suplee, Wm. F.	Widener Bldg. Walnut 4161.
Urban, Mrs. Alfred T.	1524 S. 58th St. Woodland 6821W.
Valiant, J. G., Co.	1718 Chestnut St. Spruce 485.
Waldron, B. Frank	1537 W. Columbia Ave. Diamond 727.
Ward, W. H.	15th and Oxford Sts. Poplar 1147.
Weidemann, F. V.	1609 Chestnut St. Locust 2682.
Westing, Evans & Egmore, Inc.	1315 Walnut St. Walnut 873-74.
Woodville, Miss	1711 Walnut St. Spruce 225.

Drawing Materials.

EVERYTHING

—in—

Drawing Materials

Our Representatives at Your Call

Chas. H. Robbins

1209 ARCH ST.

Bell Phone, Spruce 1256
Keystone Phone, Race 614

Bell Phone.	Key. Phone.
Bender, Theo., & Sons	1217 Spring Garden St. Poplar 3180.
Barclay, J. D., & Sons	1515 Sansom St. Spruce 4816. Race 2773.
Defiance Mfg. Co.	227 S. Broad St. Walnut 1325. Race 424.
Dietzgen, Eugene, Co.	12th and Sansom Sts. Filbert 2407.
Early, Earl J., Co.	307 Arch St. Market 663.

Drawing Materials—Continued.

Bell Phone.	Key. Phone.
Fellman, A. L.	1010 Chestnut St. Filbert 3380.
Keystone Blue Paper Co.	910 Filbert St. Filbert 4704. Race 1795.
Robbins, Chas. H., Jr.	1209 Arch St. Spruce 1256. Race 614.
Schulz, Herman W. & Co.	1305 Arch St. Spruce 2547.
Taws, Henry M.	920 Arch St. Filbert 5155. Race 2071.
Technical Supply Co.	908 Chestnut St. Walnut 3732. Race 1302.
Warren-Knight Co.	136 N. 12th St. Locust 3984. Race 1430.
Weber, F., & Co.	1125 Chestnut St. Filbert 3603. Race 278.
Weil, J. H., & Co.	1304 Arch St. Locust 5750. Race 3710.
Williams, Brown & Earl, Inc.	918 Chestnut St. Walnut 6830. Main 4525.

Dumb Waiters.

Energy Elevator Co.	214 New St. Market 822. Main 1430.
Girard Elevator Co.	325 Cherry St. Market 1221. Main 3947.
Massa, George	245 S. 6th St. Lombard 3561.
New Era Elevator & Machine Co.	246 N. Marvine St. Walnut 3254.
O'Neill Elevator Co.	628 Cherry St. Market 2241. Main 848.

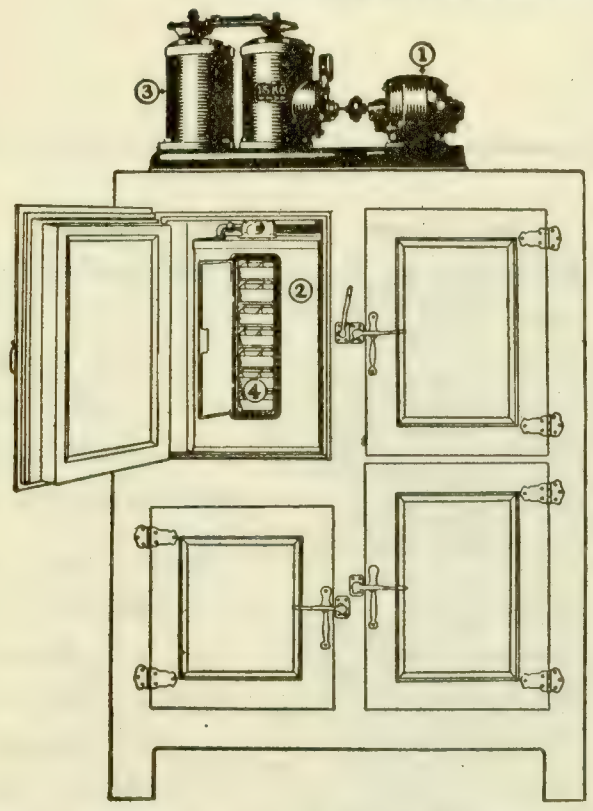
Electrical Appliances.

Adams, J. W.	130 N. 12th St. Locust 4331. Race 5800A.
Allen Electric Sales Co.	Liberty Bldg. Walnut 4344. Race 2718.
Allen-Bradley Co.	Finance Bldg. Spruce 2256.
Apple Electric Co.	210 N. 13th St. Spruce 5023.
Arnessen, A., Inc.	142 S. 3rd St. Lombard 2800. Main 167.
Auto Reclosing Circuit Brkr. Co.	Bourse Lombard 490.
Brown-White, Inc.	Finance Bldg. Locust 5758. Race 3170.
Buchanan, J. F., & Co.	1719 Chestnut St. Spruce 5510. Race 1913.
Burns, Jas. F.	713 Cherry St. Market 2423. Main 2762.
Burns, Judson C., Sales Co.	1108 Walnut St. Filbert 4154.
Carey, John	728 Arch St. Main 2678.
Cass, Philip	40 N. 5th St. Market 493. Main 758.
Champion Incandescent Light Co.	235 Market St. Market 130. Main 4286.
Chelten Electric Co.	Stenton and Rockland Sts. Wyoming 4807.
Collins, F. C., Co.	Real Estate Trust Bldg. Walnut 7475.
Consolidated Elec. Mfg. Co., The	223 N. 13th St. Race 2086.
Corson, Harris	52nd and Chestnut Sts. Belmont 5946.
Cravin & Hopkin	905 Walnut St. Main 2760.
Diehl Mfg. Co.	1305 Race St. Spruce 1520. Race 1225.
Domestic Utilities Co.	1719 Chestnut St. Spruce 5510. Race 1913.
Economy Fuse & Mfg. Co.	Widener Bldg. Walnut 394. Race 1999.
Electric Controller & Mfg. Co.	222 S. 45th St. Baring 808.

Electrical Appliances—Continued.

Bell Phone.	Key. Phone.
Electric Service Supplies Co.,	17th and Cambria Sts. Diamond 6574. Park 991.
Electrical Appliance Co.	N. American Bldg. Walnut 1026.
Electrical Appliances & Supplies Co.,	500 W. Girard Ave. Park 200
Electrical Eng. Equip. Co.	13th and Wood Sts. Race 3960.
Electrical Furnace Const. Co.	Finance Bldg. Spruce 2241.
Electrical Machinery Corp.	Bourse Bldg. Lombard 490.
Electrical Products Co.	Otis Bldg. Locust 5865. Race 932.
Elliott-Lewis Electrical Co., Inc.	1017 Race St. Walnut 4601. Race 1590.
Fittings, V. V., Co.	1906 N. 6th St. Diamond 7600.
General Electric Co.	Witherspoon Bldg. Walnut 5000.
Girard Elec. Co.	4265 N. 7th St. Tioga 3374.
Gottschalk, John W., Mfg. Co.	2726 Mascher St. Kensington 2478. Park 414.
Groswith Elec. Co.	1467 N. 52nd St. Belmont 6627.
Heinemann Electric Co.	504 W. Girard Ave. Market 698. Park 200.
Jewell Electric Co.	Bourse Bldg. Lombard 490.
Jones-Beach & Co.	50 N. 7th St. Market 408. Main 2691.
K. & B. Co.	495-97 N. 3rd St. Market 4935. Main 1171.
Large-Dail Mfg. Co.	606 Cherry St. Market 2547. Main 3106.
Lewis & Lamont	3073 Kensington Ave. Kensington 4430. East 466.
Lewis & Roth Co.	13th and Wood Sts. Locust 5021. Race 3960.
Manville, H. W., Johns Co.	210 N. Broad St Locust 1152. Race 4200.
Mayer & England	17th and Cambria Sts. Diamond 6574. Park 991.
Metropolitan Elec. Supply Co.	47 N. 6th St. Market 3863. Main 3250.
Mueller Electric Co.	222 N. 11th St. Walnut 3766. Race 1731.
Novelty Electric Co.	50 N. 4th St. Market 3965. Main 249.
Osterhout Elec. Co.	1013 Race St. Walnut 1453. Race 3471.
Paiste, H. T., Co.	3201 Arch St. Baring 1360. West 281.
Parke, John Y., Co.	31 N. 7th St. Market 1013. Main 4666.
Parker, J. H., & Son	Real Estate Trust Bldg. Filbert 5720.
Partrick & Wilkins Co.	45 N. 7th St. Market 1453. Main 1617.
Penna. Appliance Co.	132 S. 11th St. Walnut 2605. Main 100.
Phila. Electric Const. Co.	Heed Bldg. Locust 5568.
Phila. Electric Co.	10th and Chestnut Sts. Walnut 4700. Main 100.
Pringle Electric Mfg. Co., The	1906 N. 6th St. Diamond 7600. Park 404.
Roberts, H. C., Electrical Supply Co.,	11th and Race Sts. Filbert 3616. Race 483.
Robinson Electrical Co.	223 S. 5th St. Lombard 2483. Main 1566.
Rumsey Electric Co.	1231 Arch St. Spruce 1516. Race 2130.
Sadker-Sklar Co., The	1020 Arch St. Walnut 4426. Race 2023.
Schimmel Electric Supply Co.	318 Market St. Lombard 452. Main 4250.
Schmukler, S., & Son	706 S. 2nd St. Lombard 4163. Main 4912A.
Standard Elec. Supp. Co.	223 N. 13th St. Locust 4584. Race 2086.
Stanley & Patterson	Real Estate Trust Bldg. Filbert 5720.
Stewart, Frank H., Electric Co.	37 N. 7th St. Market 1874. Main 181.
Walker Bros. & Haviland	112 S. 16th St. Spruce 507. Race 1850.
Walker Electric Co.	2337 Callowhill St. Locust 612. Race 195.
Walker & Kepler	531 Chestnut St. Lombard 1387. Main 3380.
Western Electric Co., Inc.	11th and York Sts. Diamond 6800. Park 1236.
Wirt Co.	Armat and Lena Sts. Germantown 2800. North 129.

Electrical Appliances---Continued



ISKO *REFRIGERATION WITHOUT ICE*

Silent, Tireless, Automatic ISKO Manufactures Cold

Isko will convert the ice box you now have into a miniature cold storage plant. Vegetables entrusted to Isko stay garden-crisp. Isko keeps milk and butter fresh and sweet. Isko supplies cubes of pure ice for table use. And all electrically, without the ice-man and his tongs, without ammonia and its dangers.

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Philadelphia

Bell, SPRUCE 5510 Keystone, RACE 1913

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JULIUS SIMONS

ELECTRIC LIGHT AND POWER INSTALLATION

Maintenance and Repairs a specialty

Prompt Service

My Work Goes in Right the First Time—Give Me a Call

Bell, Market 2717
Keystone, Park 4926 D

Heinemann Electric Co.

Electric Light and Power Construction

Everything Electrical Repaired

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Keystone, Park 200

FIFTH STREET and GIRARD AVE.

Philadelphia

Electrical Contractors—Continued.

	Bell Phone.	Key. Phone.
Apfelbaum, Edw.		2711 Girard Ave. Poplar 6135W.
Arnessen, A., Inc.		142 S. 3rd St. Lombard 2800. Main 167.
Arnold, M. E., & Co.		114 N. 11th St. Filbert 5281. Race 144.
Auer, R. W.		247 S. 60th St. Belmont 8013.
Baird-Osterhout Co.		1620 Chancellor St. Spruce 4279. Race 3061.
Bates Electric Co.		3427 Longshore St. Tacony 76.
Belmont Electric Co.		4238 Lancaster Ave. Baring 1501.
Bender, Lawrence		4342 N. 8th St. Tioga 3293.
Bergbauer Electric Co.		1529 Pratt St. Frankford 248.
Bird, Chas. L.		3105 N. 15th St. Tioga 5794.
Bloomingdale, Alfred M.		217 Walnut St. Lombard 2383.
Blundin, L. C., & Co.		28 S. 16th St. Spruce 4300. Race 3642.
Borgetti, Salvator		909 S. 8th St. Filbert 3786W.
Bradley, Jas. J.		925 S. Cecil St. Woodland 6884.
Brown, W. T., Jr.		Commercial Trust Bldg. Spruce 3674.
Brunner, Lamar F.		812 Walnut St. Walnut 2519.
Buchanan, J. F., & Co.		1719 Chestnut St. Spruce 5510. Race 1913.
Busch, Jacob A.		1221 Commerce St. Locust 5420. Race 5765D.
Campbell, Wm. R.		926 Sansom St. Walnut 3627.
Cates & Shepard		1516 Sansom St. Spruce 4464. Race 1685.
Central Electric & Lock Co.		12 N. 13th St. Locust 5496. Race 5547D.
Central Electric & Steam Eng. Co.		Heed Bldg. Locust 6354.
Collmer, E. B.		4130 Germantown Ave. Wyoming 2242.
Commercial Const. Co.		1220 Filbert St. Locust 5439.
Commercial Eng. Co.		1518 Sansom St. Spruce 5264.
Cornfield, Jack		713 Race St. Market 3517.
Courtney, Frank K.		5104 Germantown Ave. Manheim 4287.
Culbert, Edwin H.		1339 W. Susquehanna Ave. Diamond 858.
Cummings, Jas. A., & Son.		4526 Frankford Ave. Frankford 19. East 537.
Davis, Chas. H.		175 Manheim St. Wyoming 2953.
Davis, Maurice R.		3836 Lancaster Ave. Preston 6134.
Dick, Wm. H.		1232 N. 60th St. Belmont 1090. West 4815A.
Dickinson, Ralph A.		8437 Germantown Ave. Chestnut Hill 544.
Domsgen, O.		3029 Germantown Ave. Tioga 2878.
Dunn, Jas. F., Co.		251 N. 13th St. Spruce 2508. Race 4113.
Eckstein, Herman		1742 Sansom St. Spruce 4806. Race 5617A.
Eidlow, M.		1527 Reed St. Dickinson 3789.
Eldridge, Fred. K.		1626 W. York St. Diamond 6616.
Electric Const. Co.		507 W. Susquehanna Ave. Diamond 5057.
Electrical Shop of Germantown.		22 W. Chelten Ave. Germantown 1653.
Electro Const. Co.		Commercial Trust Bldg. Spruce 3674. Race 5773A.
Engineering Electric Co.		519 Market St. Market 1422.
Engle, A. H.		1811 Fairmount Ave. Poplar 529.
Enterprise Electric Co.		221 S. 10th St. Walnut 4935.
Enstein, S. A., Co.		152 N. 9th St. Walnut 5424 Race 2569.
Fair Electric Co.		45 S. 58th St. Belmont 508.
Fish, Albert A.		125 N. 10th St. Walnut 769. Race 2457.
Fitch, M. Reed		5110 Walnut St. Belmont 2490.
Foster, D. J.		60th and Hazel Ave. Belmont 5411. West 322.
Frazer, H. B., Co.		Real Estate Trust Bldg. Walnut 3975. Race 4383.

Electrical Contractors---Continued

Bell Phone.	Key. Phone.
Freas Electric Co.	1424 Vine St. Spruce 3894.
Frederick, James	242 N. 4th St. Market 1746.
Fredericks, Martin L.	3533 N. 13th St. Tioga 5622W.
Friedman, John	648 South St. Walnut 3612. Main 3789.
Fusselman & Goodman	110 N. 9th St. Walnut 845.
Gabell, Harry	269 S. 20th St. Spruce 2700.
Ganister, Edward	3746 N. 5th St. Tioga 8411.
Gentel, Albert, Inc.	1503 Columbia Ave. Diamond 4456-4457. Park 4881D.
Goetz, Chas.	4265 N. 7th St. Tioga 3374.
Goetz, Werner W.	Commonwealth Bldg. Walnut 1292.
Gordon, Wm., Corp.	30th and Walnut Sts. Preston 5613.
Grauch, John F.	17 N. 7th St. Market 2256. Main 882.
Green, F. H.	1724 Sansom St. Spruce 5495.
Hafner, Harry G.	2545 N. 17th St. Diamond 8643.
Handshuh, J. F., & Co.	1133 Callowhill St. Walnut 643.
Hartley, Wm. C., Co.	13th and Race Sts. Locust 4114.
Hawkins, J. D.	203 S. 4th St. Lombard 1096.
Heinemann Electric Co.	504 W. Girard Ave. Market 4921. Park 200.
Henry, P. T.	1524 Chestnut St. Locust 2509. Race 2136.
Hild, Gereon I.	969 N. 10th St. Poplar 5236.
Hinderer, Wm. G., & Bro.	15 N. 3rd St. Market 4666. Main 2415.
Holm, C. H., & Co.	3305 Hamilton St. Preston 3954.
Hooven, Chas. A., & Co.	4072 Lancaster Ave. Preston 2449.
Hutton, R. M.	2730 W. Allegheny Ave. Diamond 7474.
Industrial Mfg. & Elec. Co.	416 N. Orianna St. Market 2738. Main 2863.
Jacobs, Chas.	821 N. Broad St. Poplar 3075.
Jaeger, Wm. R.	257 W. Rockland St. Wyoming 4953.
Jesser, Albert E.	1434 W. Passyunk Ave. Dickinson 533.
Jones, C. Brook	4447 Main St. Manayunk 1797.
Keller-Pike Co.	1213 Race St. Spruce 5076. Race 419.
Kelly, C. F., Co.	1230 Chancellor St. Walnut 2140.
Kennard, Wm. A.	7201 Oak St. Oak Lane 93.
Kerr, Henry	3442 Frankford Ave. Frankford 1130.
Kester, Chas. W.	3038 W. York St. Diamond 4394. Park 4910A.
Klepfer, J. Walter	1203 Medary St. Oak Lane 897.
Kovsky, Benj.	1007 Locust St. Walnut 5376.
Kunzig, Henry J.	208 Walnut St. Lombard 2896.
Landes, Ralph S.	2017 Fairmount Ave. Poplar 1654.
Lee, E. A.	116 S. 17th St. Locust 2951. Race 1597.
Lennig Bros. Co.	827 Spring Garden St. Market 4042. Main 2679.
Lewis & Lamont	3073 Kensington Ave. Kensington 4430. East 466.
Light, Harry T.	2108 S. Lambert St. Dickinson 3248.
Livingston, J., & Co., Inc.	Otis Bldg. Spruce 1885.
Logan Hardware & Electric Shop,	4939 N. Broad St. Wyoming 431.
Loveland, Wm. A.	2009 Sansom St. Locust 1795. Race 2615.
Lyons & Bird	3105 N. 15th St. Tioga 5794.
McCarthy, Fred. P.	4511 Lancaster Ave. Belmont 3660. West 4305D.
McCausland, W. W., & Son	3647 Market St. Preston 3564. West 4385A.
McIntire, Walter C., & Co.	12 N. 5th St. Market 1526. Main 706.
MacKellar, Herbert	2099 N. 63rd St. Overbrook 3840.
Maier, F. J.	809 Locust Ave. Germantown 6039.
Marley Electric Co.	116 N. Camac St. Locust 4524. Race 1869.
Maimin, David	Colonial Trust Bldg. Locust 5680.
Marsh, Loan J.	1941 Market St. Locust 1824. Race 5952D.
Mearns & Corkery	1627 Winter St. Spruce 1827. Race 3509.
Messeroll, J. H.	203 S. 4th St. Lombard 1096.
Messner, Chas. W.	3704 N. Broad St. Tioga 2444. North 133.
Middleton, O. N.	77 Herman St. Germantown 1471.
Miller, Jos. S., Elec. Const. Co.	45 N. 13th St. Spruce 5482. Race 1226.
Mills, L. N.	2514 Germantown Ave. Diamond 4409.
Modern Electric Co.	110 N. 9th St. Walnut 845.
Nash, W. Harwood	5422 Christian St. Woodland 1080. West 641.
National Daylight Illuminating Co.,	1524 Chestnut St. Locust 2509. Race 2136.
Newman, N.	5943 Market St. Belmont 1911. West 4233A.
Nicholson Electric Co.	6201 Christian St. Woodland 2733.
Northern Engineering Co.	308 Chestnut St. Lombard 4577. Main 816.
Nusbaum, Elias & Bro.	2023 Sansom St. Spruce 4229. Race 3064.
Northwestern Electric Co.	3101 W. Girard Ave. Poplar 4412.
Oestmann's Electrical Shop.	5423 Germantown Ave. Germantown 984.
Onderkirk, J. A.	12 N. 5th St. Market 1526.
Overbrook Electrical Shop	1993 N. 63rd St. Overbrook 8213.
Pangborne, W. V., & Co.	1927 W. Montgomery Ave. Diamond 6794. Park 11.
Patton, T. B.	5234 Girard Ave. Belmont 1463.
Penn Electrical Co.	1515 N. 60th St. Belmont 6687.
Price Electric Co.	537 N. 8th St. Market 2004. Main 1762.
Progress Electrical Const. Co.	55 N. 7th St. Market 3126.
R. & S. Electric Co.	547 N. 6th St. Market 2095W.
Randolph, Harvey, Jr.	3022 W. York St. Diamond 4596.
Read & Bigley	1339 W. Susquehanna Ave. Diamond 858.
Ridley, Benj. R.	6202 Lansdowne Ave. Belmont 1807.
Riggins, Frank	241 S. 5th St. Lombard 3523.
Robinson Electrical Co.	225 S. 5th St. Lombard 2483. Main 1566.
Rodenhausen, Geo. L.	4717 N. Broad St. Wyoming 749.
Rogers, Martin A.	102 Carpenter Court Lombard 3361.
Ross Construction Co.	Beach and Brown Sts. Market 3813.
Rumer, C. M.	2246 N. 29th St. Diamond 751.
Rubinstein, L. M.	2848 Kensington Ave. Kensington 5649.
Saeger, Earl S.	12 N. 13th St. Locust 5490.
Saeta, S.	1120 N. 41st St. Preston 3451.
Samuel, Albert H.	18 S. 7th St. Market 3582.
Schaedler, Wm. W.	226 S. 52nd St. Belmont 4574.
Schaffner, Wm.	3624 Germantown Ave. Tioga 4729.
Schick Elec. Eng. & Const. Co.,	3361 Old York Road Tioga 3549.
Schlaff, Theo.	4433 Wayne Ave. Wyoming 5645W.
Schneider, Louis	34 N. Millick St. Belmont 2285.
Schuck, Geo. F.	22 W. Chelten Ave. Germantown 1653.
Schwartz, Wm. P.	1737 Moravian St. Locust 1058. Race 2476.
Schwarz, Frank	2434 S. 16th St. Dickinson 957.
Sechrist, Henry E.	136 N. 12th St. Locust 3835. Race 3014.
Seemuller, W. G.	507 W. Susquehanna Ave. Diamond 5057.
Sheble, H. N.	1305 Race St. Spruce 1520.
Shore, Frank	335 Dickinson St.
Silcox, Chas. D., Jr.	2761 Orthodox St. Frankford 423.
Silver, Maxwell L.	5013 N. 5th St. Wyoming 1110.
Simons, Julius	1005 Bodine St. Market 2717. Park 4926D.
Sinn Bros.	2207 Chestnut St. Spruce 5207.
Stavitz, Jos.	814 Winton St. Dickinson 435J.
Stern, Louis	120 N. 7th St. Market 4047.
Stotler, Elmer F.	2012 Ridge Ave. Poplar 3687. Park 615.
Strang Elec. Co.	214 S. 7th St. Walnut 2458. Main 1752.
Stroud, Harvey A.	2105 N. 11th St. Diamond 132. Park 5590A.
Stuhlmuller, Harry A.	1337 W. Venango St. Tioga 4559.
Sweet & Sweet	16th and Brown Sts. Poplar 2857.
Taylor, A., Co.	Commonwealth Bldg. Walnut 4431. Race 331.
Taylor & Beiler	1809 Market St. Spruce 1118.
Thornley, Wm. J.	227 S. 10th St. Walnut 1523.
Thwaites, Robt.	1211 Cherry St. Locust 2864. Race 877.
Tompkins, F. S.	5302 Walnut St. Belmont 9282.
Townsend, Earl R.	2659 N. 2nd St. Kensington 5729.
Tricker, Walter J.	1051 S. Frazer St. Woodland 6923W.
Tull, Charles E.	252 N. 15th St. Spruce 249. Race 3308.
Twesten Electric Co.	2236 W. Lehigh Ave. Diamond 4897.
Umberger, J. R., Co.	1412 Rockland St. Wyoming 5489.
United Electric Const. Co.	1727 Sansom St. Spruce 4820. Race 2460.
Van Roden, Chas. E.	3946 Lancaster Ave. Preston 3232.
Vey, J. M.	1306 N. 29th St. Poplar 1012.
Vol-Ight Electric Co.	2108 S. Lambert St. Dickinson 3248.
Walker, E. G.	5025 Walton St. Woodland 4255W.
Walker & Kepler	531 Chestnut St. Lombard 1387. Main 3380.
Wallace-Mills Co.	2514 Germantown Ave. Diamond 4409.
Waters, Arthur	3212 Germantown Ave. Tioga 8749.

Electrical Contractors—Continued.

Bell Phone.	Key. Phone.
Watson, Chas. M.	209 N. 11th St. Walnut 2259. Race 5489A.
Watson, Wm.	1611 Moravian St. Locust 2430.
Weatherly, Earl David, & Co.	2804 N. 5th St. Tioga 5963J.
West Elec. & Eng. Co.	203 S. 4th St. Lombard 1096.
West End Mfg. Co.	6240 Market St. Belmont 2872.
White City Elec. Co.	Widener Bldg. Walnut 6641.
Wiegand, Edw. A., & Co.	5704 Germantown Ave. Germantown 1254.
Williams, Robt. L.	2541 N. 11th St. Diamond 220.
Wilson Bros.	5231 Walton St. Woodland 612.
Wilson, George P.	5620 Girard Ave. Belmont 4858.
Wolf, James C.	221 S. 10th St. Walnut 4935.
Woodoth, Evan	148 N. 2nd St. Market 958.
Woods, Albert B.	2903 Kensington Ave. Kensington 1629.
Woodward, George, Jr.	1723 Sansom St. Spruce 6410.
Wright, George C.	407 Markle St. Roxboro 1732.
Wright, Robert J.	4519 N. Broad St. Wyoming 1940.
Wright & Wright	2215 N. Broad St. Diamond 794.
Wyoming Electric Co.	19 S. 13th St. Filbert 3856.

Elevators.

A B See Electric Elevator Co. Colonial Trust Bldg. Locust 5518. Race 2057.
Albro Clem Elevator Co. ..... D and Erie Ave. Kensington 6974. Race 610.
Atlas Elevator Co. ..... 628 Cherry St. Market 2241. Main 848.
Eastern Elevator & Elec. Repair Co. 215 N. 2nd St. Market 2455. Main 677.
Elevator Const. & Repair Co. .... 621 Commerce St. Market 1940. Main 2531.
Elevator Eng. & Const. Co. .... 250 N. Marvine St. Walnut 1739. Race 1454.
Energy Elevator Co. ..... 214 New St. Market 822. Main 1430.
Girard Elevator Co. ..... 325 Cherry St. Market 1221. Main 3947.
Imperial Elevator Co. ..... 923 Locust St. Walnut 1707. Main 4308.
Independence Elevator Co. ... 7th and Wood Sts. Market 2371. Main 1590.
New Era Elevator & Machine Co., 246 N. Mervine St. Walnut 3254.
Orneida Elevator Co. ..... 733 Cherry St. Market 3748.
Otis Elevator Co. ..... 16th and Sansom Sts. Spruce 5500. Race 300.
Phila. Elevator Co., Inc. ..... 3717 Filbert St. Preston 4731.
Security Elevator Co. ..... 901 Callowhill St. Filbert 2848. Race 2496.
Stevens, John ..... 1215 Frankford Ave. Kensington 380. East 129.
Warsaw Elevator Co., ... 929 Chestnut St. Walnut 983.

Elevator Doors and Gates.

ST. LOUIS FIRE DOOR CO.
ST. LOUIS, MO.
Manufacturers of
"WAL-EL-DOR"
Vertical Telescoping Freight Elevator Door
"CO-BAL-DOR"
Counterbalanced Freight Elevator Door
"TI-CO-DOR"
Tinclad Counterbalanced Freight Elevator Door
"FOLD-UP-DOR"
Horizontal Folding Door for Warehouse, Shipping Platform, Freight House and Garage Openings
Bell, Locust 2313 Keystone, Race 177
F. J. WILSON COMPANY
1416 LAND TITLE BUILDING
Philadelphia, Pa.

Bell Phone.	Key. Phone.
AUDUBON WIRE CLOTH CO., INC.,	**AUDUBON, N. J.**
Haddon Heights 573.	Main 3597.
Atlas Erecting & Mfg. Co.,	610 Birch St., Camden, N. J.
Camden 2949W.	Camden 268.
Otis Elevator Co.	16th and Sansom Sts. Spruce 5500. Race 300.
Peelle Co.	34 S. 16th St. Locust 4837.
Quincy Elevator Gate Co.	250 N. Marvine St. Walnut 1739. Race 1454.
Reliance Elevator Co.	926 Mountain St. Dickinson 1972.
Richmond Safety Gate Co.	1414 S. Penn Sq. Spruce 3818.
St. Louis Fire Door Co.	1416 Land Title Bldg. Locust 2312. Race 177.
Wilson, F. J., Co.	1416 Land Title Bldg. Locust 2312. Race 177.

Elevator Safety Devices.

Jenkins Interlock Mfg. Co., Inc. .926 Mountain St. Dickinson 1972.
Otis Elevator Co. ..... 16th and Sansom Sts. Spruce 5500. Race 300.
Peele Co. ..... 34 S. 16th St. Locust 4837.
Quincy Elevator Gate Co. .... 250 N. Marvine St. Walnut 1739. Race 1454.
Richmond Safety Gate Co. ..... 1414 S. Penn Sq. Spruce 3818.
St. Louis Fire Door Co. ... 1416 Land Title Bldg. Locust 2312. Race 177.
Wilson, F. J., Co. ..... 1416 Land Title Bldg. Locust 2312. Race 177.

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EXCAVATING

Steam shovels for rent, with crews, or work taken by contract; dinkies and cars or teams furnished.

H. C AMBLER
3717 O'd York Road, Philadelphia
Bell Phone, Tioga 5599

Bell Phone.	Key. Phone.
Ambler, H. C.	3717 Old York Road Tioga 5599.
Boyle, A. J.	4622 Lancaster Ave. Belmont 4595.
Gargeu, Joseph, & Co.	214 E. Haines St. Germantown 6133.
Harris, John J., Cons. Co.	5620 McMahon St. Germantown 4961.
Lee, Thomas P.	5629 Cherry St. Belmont 418. West 387.
Longstreth, Joseph J.	424 Rhaun St. Fox Chase 338.
Mansolino, John	6223 Girard Ave. Belmont 7372.
Marino, Nick	6215 Race St. Belmont 2147J.
Mark, Frank, Cont. Co.	2820 N. 21st St. Diamond 8050. Park 1096.
Morris, John	2231 Columbia Ave. Diamond 3346.
Morrissy, Ed.	4345 N. 7th St. Tioga 5713.
Mullen, James A.	5512 Vine St. Belmont 200. West 320.
Perna, Joseph	65th and Callowhill Sts. Belmont 653.
Peters, Don	5111 York Road Wyoming 1055.
Porter, James	1429 Federal St. Dickinson 517. Race 2256.
Wenner, R. B.	3106 Midvale Ave. Germantown 913J.

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BUILDERS GUIDE
Perry Building, Philadelphia
Spruce 1611-12 Race 2799

Fences and Gates (Iron).

Bell Phone.	Key. Phone.
Anchor Post Iron Works	Real Est. Tr. Bldg. Walnut 4633.
Aubel, F. & E.	2503 Germantown Ave. Diamond 5280. Park 5141D.
Berko Bros.	Randolph and Wood Sts. Market 317. Main 1340.
Clopp, George B.	3717 Filbert St. Preston 4731. West 370.
Coyle, H. B., Iron Works	622 Filbert St. Market 1509.
Cyclone Fence Co.	Stock Exchange Bldg. Locust 3434.
Gillise, Philip V.	5718 Lena St. Germantown 5412W.
Gruss, Frank A.	1025 Callowhill St. Walnut 857.
Heberle, Eugene	56th and Summer Sts. Belmont 4439.
O'Neill, Michael	1531 Filbert St. Spruce 1572. Race 5770D.
Pettit, Frank, Orna. Iron Works	809 Master St. Kensington 6652. Park 35.
Riesbord, W.	4442 Ludlow St. Baring 7710.
Rochlis, S.	1518 N. 5th St. Diamond 1546.
Smyser-Royer Co.	1225 Race St. Locust 3971. Race 3855.
Sutton, W. A., & Co.	926 N. 19th St. Poplar 1726. Race 5869D.
Ward, Joseph T., Co.	5809 Baynton St. Germantown 3555.
Wayne Iron Works	Commercial Trust Bldg. Spruce 520. Race 553.

Fire Brick.

Acme Boiler & Furnace Co. ..... Bourse Bldg. Lombard 490.
American Enameled Brick & Tile Co., Morris Bldg. Spruce 646.
American Fire Brick Co. ... 2310 Washington Ave. Dickinson 1660.
Borgner, Cyrus, Co. .... 23rd St., above Race St. Spruce 4240. Race 410.
Botfield Specialties Mfg. Co. ... 776 S. Swanson St. Lombard 3488. Main 1609.
Brady, John F. ..... Crozer Bldg. Locust 2214.
Bridgeford, J. J., & Co. ..... 1526 Parrish St. Poplar 4882. Park 512.
Brighton Fire Brick Co. ..... 1213 Penna. Bldg. Locust 6780.
Eastern Fire Brick Co. . 1035 Commercial Tr. Bldg. Spruce 5357.
Eastern Refractories Co. 438 Commercial Tr. Bldg. Spruce 3052.
Elk Fire Brick Co. ..... 508 Land Title Bldg. Locust 5063.
Fitzgerald, J. J., & Co. ..... 2nd and Butler Sts. Kensington 1019. Park 5385A.
France, David, Co. ..... Tasker St. Wharf Dickinson 1513. Main 1665.
French, S. H., & Co. ..... 4th and Callowhill Sts. Market 1924. Main 1221.
Harbison-Walker Refactories Co. ... Morris Bldg. Spruce 4794-95.
Hayes Run Fire Brick Co. ..... Land Title Bldg. Spruce 738. Race 290.
Hydraulic Press Brick Co. .... Real Est. Tr. Bldg. Filbert 3135. Race 976.
Hyzer & Lewellen ..... 952 N. 9th St. Poplar 2519.
Kolb, George & Wm. ... Meadow and Jackson Sts. Dickinson 1585.
Lotz, F. C., & Son .... American and Dauphin Sts. Kensington 2250. Park 904.
Lukens, J. Parry ..... Liberty Bldg. Walnut 1825. Race 398.
Maurer, Henry, & Son ..... Penna. Bldg. Spruce 1689.
Miller & Williams ..... 2340 N. 32nd St. Diamond 664.
Paterson Clay Products Co. . 1430 S. Penn Square Spruce 4944.
Phila. Fire Brick Co. ..... 23rd and Vine Sts. Locust 997. Race 1823.
Phila. Fire Retardant Co. ..... 1507 Arch St. Spruce 1633. Race 3339.
Remmey, Richard C., Son Co., Hedley and Delaware River Kensington 6605. East 324.
Swank's, Hiram, Sons ..... Penfield Bldg. Walnut 399.

Fire Doors and Shutters.

Kalamein Doors

Copper Covered Doors

Underwriters' Label Furnished

Bronze Covered Bulk Windows

Manufactured by

RELIANCE FIREPROOF DOOR CO.

BROOKLYN, N. Y.

Represented by

F. J. WILSON CO.

1414-16 Land Title Building

PHILADELPHIA

Bell Phone Locust 2313 — Keystone Phone Race 177

Bell Phone.	Key. Phone.
Cooper & Lucas	Real Estate Trust Bldg. Walnut 1127.
Hammond, R. R., & Co.	Widener Bldg. Walnut 4084. Race 3514.
Johnson, T. S., Sons Co.	622 Cherry St. Market 1093. Main 2198.
McFarland-Meade Co.	70th and Kingsessing Ave. Woodland 528. West 411.
Merchant & Evans Co.	2035 Washington Ave. Dickinson 60. Race 600.
Peelle Co.	34 S. 16th St. Locust 4837.
Penn Metal Co., Ltd.	25th & Wharton Sts. Dickinson 4600. Race 1581.
Reliance Fireproof Door Co.	1416 Land Title Bldg. Locust 2312. Race 177.
Richmond Safety Gate Co.	1414 S. Penn Square Spruce 3818.
Wilson, F. J., Co.	1416 Land Title Bldg. Locust 2313. Race 177.

Fire Escapes.

Aubel, F. & E.	2503 Germantown Ave. Diamond 5280. Park 5141D.
Baizley, John, Iron Works.	514 S. Delaware Ave. Lombard 2282. Main 3550.
Baruch, Frank	1210 S. 3rd St. Main 2365.
Biggin, Charles P., Co.	1829 Harlan St. Poplar 1877. Park 566.
Brownworth & Co.	1611 Sansom St. Spruce 5102. Race 907.
Coyle, H. B., Iron Works, Inc.	622 Filbert St. Market 1509.
Hoffman, Chris.	346 S. 4th St. Lombard 2563.
Reisbord, W.	4437 Ludlow St. Baring 7710.
Rope Fire Escape Co.	1626 Market St. Spruce 4955.
Steward & Stevens Iron Works.	1724 N. 9th St. Diamond 7511. Park 470.
Tierney, John P.	269 S. 4th St. Lombard 3115.

Fire Escapes—Continued.

Fire Escapes

Structural Iron Work

The John Baizley Iron Works

514 S. Delaware Ave.

Bell Phone Lombard 2282

Keystone Phone Main 3550

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METAL LATH AND EXPANDED METAL

Union Metal Columns
Last a Lifetime
Decorate Your Home

Dexter Columns
Cement Filled
Save Floor Space

Machine Guards
Of Expanded Metal
Protect Your Employees

Corner Beads
Protects Plastered Corners

Sanitary Metal Base
Picture Mould—Door Casings
Window Sill—Base Grounds

Plaster Board Sheathing
Costs Less Than Wood

Curb Reinforcement
Protects your Cement Curb

Expansion Joint Filler
Saves Your Concrete Floors and Sidewalks.

PEARCE FIREPROOF CO.
SERVICE
1345 ARCH STREET, PHILA., PA.

Fire Proof Building Materials---Continued

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SIXTEENTH STREET AND WASHINGTON AVENUE
PHILADELPHIA, PA.

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Expanded Metal Lath
"BB" and "Standard" diamond mesh
3/8" RIBPLEX (ribbed lath)

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Steel Filing Cases

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DICKINSON 1443 RACE 3920

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Immediate delivery from our large Philadelphia Warehouse of Round and Square rib bars cut to length and fabricated, either from your own lists or from lists to be prepared by us.

Also Hy-Rib and Metal Lath, No. 1-A Lath, Corner Bead, Curb Bars and Steel Sash

Truscon Steel Company

Formerly

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Bell Phone, Walnut 660 Keystone Phone, Race 3472

Fireproof Building Materials—Cont.

Bell Phone.	Key. Phone.
Berger Mfg. Co.	16th and Washington Ave. Dickinson 1443. Race 3920.
Bostwick Steel Lath Co.	2324 Callowhill St. Locust 956. Race 4279.
Consolidated Expanded Metal Cos.	2200 Arch St. Spruce 1076. Race 4288.
General Fireproofing Co.	Bulletin Bldg. Spruce 5837. Race 1546.
Keasbey & Mattison	1927 Market St. Spruce 976. Race 671.
Ketcham, O. W.	Builders' Exchange Market 2470. Main 1738.
Keystone Fireproofing Co.	North American Bldg. Walnut 5545.
King, J. B., Co.	Builders' Exchange Market 3848. Main 2932.
McCalla, Harold, Co.	531 N. 4th St. Market 3012. Main 886.
Maurer, Henry, & Son	Penna. Bldg. Spruce 1689.
New Jersey Wire Cloth Co.	223 Arch St. Market 2751. Main 2780.
Noe-Wadlow Co.	2nd and Oxford Sts. Kensington 661. Park 1345.
Pearce Fireproof Co.	1345 Arch St. Locust 3924. Race 4434.
Penn Metal Co., Ltd.	25th and Wharton Sts. Dickinson 4600. Race 1581.
Phila. Fireproof Bldg. Material Co.	1345 Arch St. Locust 3924. Race 4434.
Reid, A. S., & Co.	Morris Bldg. Spruce 646. Race 1984.
Reinforced Fireproofing Co.	Finance Bldg. Spruce 5279.
Thompkins Bros.	Penna. Bldg. Locust 6780.
Truscon Steel Co.	Commonwealth Bldg. Walnut 660. Race 3472.
U. S. Gypsum Co.	133 S. 12th St. Walnut 223.
Wilson, F. J., Co.	Land Title Bldg. Locust 2312. Race 177.

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(See Terra Cotta, Sewer Pipe, Wall Coping and Flue Lining.)

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for Steam, Water and Warm Air

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Bell Phone, Spruce 3348 — Keystone Phone Race 2076

Bell Phone.	Key. Phone.
American Radiator Co.	115 N. Broad St. Spruce 2040. Race 1902.
American Tin & Terne Plate Co.	2400 Vine St. Locust 165. Race 2171.
Apeldorn & Beatty Co.	155 N. 9th St. Walnut 1168. Main 1664.
Bartlett & Co., Inc.	1938 Market St. Locust 2665. Race 134.

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All Materials for Hot Water and Steam

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AMERICAN TIN & TERNE PLATE CO.
24th AND VINE STREETS
Philadelphia

Bell Phone, Locust 165 — Keystone Phone, Race 2171

J. Reynolds & Son

Every Thing Pertaining to Heat

Heaters, Ranges, Laundry Stoves, Water Heaters, Fireplace Equipment.

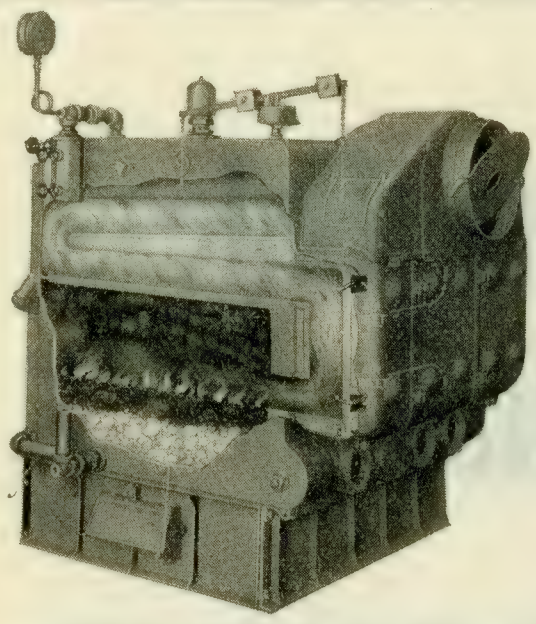
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Philadelphia

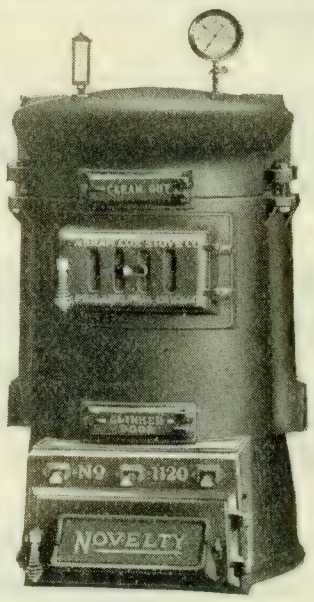
Bell, Spruce 3649 Keystone, Race 5528-A

Bell Phone.	Key. Phone.
Borden Stove Co.	1313 Arch St. Spruce 3348. Race 2076.
Bridgeman Bros. Co.	120 S. 30th St. Preston 5800. West 700.
Caloric Furnace Co.	1531 Locust St. Spruce 2776.
Caskey & Keen	6th and Berks Sts. Diamond 7684. Park 366.
Cox, Abram, Stove Co.	American and Dauphin Sts. Kensington 830. Park 771.
Dunham, C. A., Co.	Witherspoon Bldg. Walnut 813. Race 2323.
Federal Radiator Co.	Land Title Bldg. Spruce 1830. Race 2748.
Fleck Bros. Co.	44 N. 5th St. Market 1655. Main 2630.
Fow Mfg. Co., Inc.	123 N. 2nd St. Market 307. Main 2166.
Fowler & Wolf Mfg. Co.	672 Bourse Bldg. Lombard 1255. Main 2289.
Gilbert & Barker Mfg. Co.	Lincoln Bldg. Walnut 4986.
Gurney Heater Mfg. Co.	108 N. 17th St. Locust 1970. Race 4238.
Hart & Crouse Co.	1503 Sansom St. Spruce 4564. Race 466.
Haynes Selling Co.	1711 Sansom St. Spruce 480. Race 636.
Keystone Supply & Mfg. Co.	927 N. 19th St. Market 4135. Park 1120.
Kisterbock, J., & Son	2002 Market St. Locust 1073. Race 408.
Klein Stove Co.	Front and Fairmount Ave. Market 3879. Park 1678.
Long, James N., Co.	2 N. 20th St. Spruce 4933.
Lord & Burnham Co.	Land Title Bldg. Spruce 5291.
Makin Heating Co.	1827 Filbert St. Locust 1249. Race 2581.
Miller, Henry M.	50 N. 2nd St. Market 996. Main 1731.
Monitor Bi-Loop Radiator Co.	Finance Bldg. Spruce 3995.
National Radiator Co.	1325 Arch St. Locust 4236. Race 524.
Page, Wm. H., Boiler Co.	1718 Sansom St. Spruce 806. Race 862.

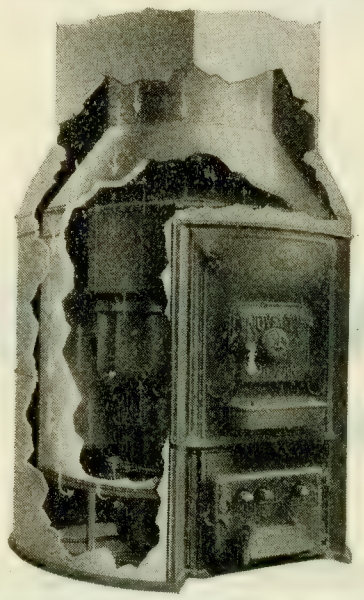
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NOVELTY Round Boilers
for heating with hot water, Steam or vapor



NOVELTY Warm Air Furnaces---Pipe and Pipeless Types

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ABRAM COX Stove Company

American and Dauphin Streets

PHILADELPHIA

BELL: Kensington 830 KEYSTONE: Park 771

	Bell Phone.	Key. Phone.
Pennsylvania Range Boiler Co.	10th St., ab. Norris	
	Diamond 6406.	Park 502.
Pierce, Butler & Pierce Mfg. Corp.,	Broad and Race Sts.	
	Locust 3866.	Race 1739.
Reynolds, J., & Son	1613 Filbert St.	
	Spruce 3649.	Race 5528A.
Richardson & Boynton Co.	1332 Arch St.	
	Locust 5726.	Race 3690.
Richmond Radiator Co.	2241 N. American St.	
	Kensington 1256.	
Sabin, Edw. R., & Co.	63rd and Walnut Sts.	
	Belmont 7640.	West 552.
Sabin, Frederick, & Co.	237 N. Bread St.	
	Market 1200.	Main 2191.
Smith, H. B., Co.	17th and Arch Sts.	
	Spruce 3066.	Race 2780.
Spear, James, Stove & Heating Co.	1823 Market St.	
	Spruce 2470.	Race 753.
Spencer Heater Co.	Otis Bldg.	
	Spruce 418.	
Strong, Carlisle & Hammond Co.	1514 Vine St.	
	Lombard 4964.	
Tubular Heating & Ventilating Co.	232 Quarry	
	Market 2654.	Main 1960.
Union Radiator Co.	106 N. 17th St.	
	Locust 2426.	Race 2062.
U. S. Radiator Corp.	Widener Bldg.	
	Walnut 248.	Race 714.
Utica Heater Co.	1712-14 Ludlow St.	
	Locust 2165.	Race 2259.
Vapor Heating Co.	North American Bldg.	
	Filbert 2280.	
Vapor Vacuum Heating Co.	Otis Bldg.	
	Spruce 3175.	
Warren Webster Co.	Stephen Girard Bldg.	
	Filbert 2683.	Race 918.
Wood, John, Mfg. Co., Inc.	1223 Hamilton St.	
	Poplar 7638.	Race 1945.

Gas and Electric Fixtures.

Aladdin & Wakefield	37 N. 7th St.	
	Market 1874.	
Auer, R. W.	247 S. 60th St.	
	Belmont 8013.	
Biddle-Gaumer Co.	3846 Lancaster Ave.	
	Baring 760.	West 500.
Bodo, Louis	1204 Nectarine St.	
	Poplar 3760.	
Brascolite Lighting System	Land Title Bldg.	
	Locust 2529.	
Bromund & Son, Inc.	2337 Germantown Ave.	
	Diamond 6826.	
Champion, Inc., Light Co.	235 Market St.	
	Market 130.	Main 4286.
Clanton & Wylie	3360 Germantown Ave.	
	Tioga 3282.	
Columbia Mfg. Co.	261 N. Lawrence St.	
	Market 1167.	
Famous Chandelier Co.	123 N. 4th St.	
	Market 572.	
Frankford Gas Fixture Co.	4273 Frankford Ave.	
	Frankford 267.	East 4225D.
Frechie, Jos. E., & Co., Inc.	634 Arch St.	
	Market 1839.	Main 1660.
Friedman, Samuel	65 N. 2nd St.	
	Market 4328.	Main 5729A.
General Lighting Fixt. & Supply Co.,	231 Market St.	
	Market 1278.	
Globe Lighting Fixture Co.	153 N. 10th St.	
	Walnut 5330.	
Gold, J.	1823 Columbia Ave.	
	Diamond 6529.	
Harter Mfg. Co.	1231 Arch St.	
	Spruce 1516.	Race 2130.

Gas and Electric Fixtures---Continued

No Building Is Complete Unless Fully Piped For Gas

Necessary modern conveniences are lacking in many structures built a few years ago, because they were not provided for at the start.

A vital error in planning a house now would be failure to arrange for an up-to-date Gas Range, a Gas Laundry Stove and a Gas Automatic Instantaneous Water Heater or Automatic Storage Water Heater. These appliances should be in the original specifications.

Don't overlook suitable gas outlets for Heating Stoves, Fire Places, Bracket Lights, Floor and Table Lamps and a Bath-room Wall Burner. The occupant will want them, and the economical and convenient way is to provide for them in the beginning.

In the shop and factory there are scores of processes requiring Gas Fuel, and piping should be specified to take care of them.

Our practical men know the best ways to pipe a building; where and how to place the outlets; how to insure the right supply of Gas at all points—things which should be considered when the plans are being drawn.

Call Locust 1300 (Bell) or Race 30 (Keystone) and ask for the New Business Department; or drop a letter or post-card. We shall be glad to co-operate with you.

THE UNITED GAS IMPROVEMENT CO.

Bell Phone, Locust 1300 **Keystone Phone, Race 30**

Gas and Electric Fixtures—Continued.

Bell Phone.	Key. Phone.
Heller, C. B.	622 Arch St. Market 3793.
Henderson, C.	261 N. Lawrence St. Market 1167.
Henderson, N. E., Co.	1320-22 Race St. Locust 4166. Race 3020.
Horn & Brannen Mfg. Co.	427 N. Broad St. Poplar 4471. Race 811.
International Lighting Fixt. Co.	627 Market St. Market 4375. Main 1285.
Jones, Horace S., Lighting Co.	125 N. 13th St. Spruce 4711.
Kensington Gas & Elec. Supp. Co.,	3028 Kensington Ave. Kensington 6831.
Keystone Gas Fixt. Works	123 N. 7th St. Market 3342. Main 962.
Krawitz, Nathan	3040 Kensington Ave. Kensington 2755.
Lloyd Garrett Co.	229 N. 23rd St. Locust 647.
Logue-Stronge Mfg. Co.	221 N. 16th St. Spruce 4347. Race 2570.
Luminous Unit Co.	Land Title Bldg. Locust 2529.
McDonald, John	1533 Chestnut St. Spruce 3138.
Messick, A. B. F.	1317 Arch St. Locust 4094.
Mitchell-Vance Co., Inc.	Land Title Bldg. Locust 2826. Race 4200.
Modern Light & Novelty Shop,	2948 Germantown Ave. Tioga 4571.
Modern Lighting Co.	2024 N. Broad St. Diamond 724.
Morby, B.	6355 Germantown Ave. Germantown 5228W.
National Light Supp. Co.	65 N. 2nd St. Market 4328. Main 5729A.
National X-Ray Reflector Co.	Finance Bldg. Locust 57.
N. Y. Light Supply Co.	49 N. 9th St. Walnut 504.
Northeast Gas & Elect. Fixt. Co.,	3040 Kensington Ave. Kensington 2755.
Paul & Katzen	685 N. Broad St. Poplar 4479. Race 5409A.
Penn Light Co.	626 South St. Filbert 3672J. Main 3361.
Philadelphia Electric Co.	1000 Chestnut St. Walnut 4700. Main 100.
Price Gas & Electric Supply Co.	38 N. 9th St. Walnut 1206.
Quaker Light Supply Co.	728 Arch St. Walnut 3682. Main 2678.
Quinn, Jos. A.	45 N. 6th St. Market 2340. Main 1886.
Rabinovitz, J.	2948 Germantown Ave. Tioga 4571.
Reliance Gas & Elect. Fixt. Co.	1511 Arch St. Spruce 4532.
Sherman, C. Lester, Jr.	3846 Lancaster Ave. Baring 760. West 500.
Staman & Dickey Co.	30 S. 16th St. Spruce 2558.
Subway Gas & Elec. Fixt. Co.	49 N. 9th St. Walnut 504.
Sulzer & Co., Inc.	252 N. 11th St. Filbert 3704. Race 2762.
Sun Light Supply Co.	1430 Columbia Ave. Poplar 3583.
Sklar, Morris, Co.	1020 Arch St. Walnut 4426. Race 2023.
Uhr's Gas & Elec. Supply Co.	18 S. 2nd St. Lombard 1607. Main 1140.
United Gas Improvement Co.	1401 Arch St. Locust 1300. Race 30.
Walker & Kepler	531 Chestnut St. Lombard 1387. Main 3380.
Ward, Robt. J., & Co.	816 Arch St. Walnut 6554.
Welsbach Gas Lamp Co.	1008 Filbert St. Walnut 4495. Race 1610.
West End Mfg. Co.	6240 Market St. Belmont 2872.
West Phila. Gas & Elec. Fixt. Co.	5943 Market St. Belmont 1911.
West United Mfg. Co.	6140 Market St. Belmont 8429.

GLASS

HIRES TURNER GLASS COMPANY

MANUFACTURERS AND DISTRIBUTORS

Plate, Window
Picture, Mirrors
Beveled Plate

GLASS

Wire Glass
Skylight Glass
Ornamental Glass

Builders of

ZOURI-LIGHTHOUSE STORE DISPLAY WINDOWS

WRITE FOR BULLETINS

Washington, D. C. **Philadelphia, Pa.** **Rochester, N. Y.**

Quality Glass Products

GLASS OF EVERY DESCRIPTION

Stott-Hecht Glass Works, Inc.

429 N. 6th Street

Bell, Market 616 Keystone, Main 3234

Bell Phone.	Key. Phone.
Bennett, G. S., & Co.	114 N. 9th St. Filbert 5845. Race 1338.
Bennett, H. L.	Bourse Bldg. Lombard 1214. Main 1347.
Buten, Max	1834 South St. Spruce 3182. Race 5762A.
Finnaren & Haley	60th and Thompson Sts. Belmont 4765. West 274.
Gillingham, C. A.	12th and Morris Sts. Dickinson 308. Race 3060.
Goldsmith, B.	5th and Washington Ave. Lombard 2196. Main 1934.
Haines, Alfred C.	56 N. Front St. Market 3228. Main 316.
Hires-Turner Glass Co.	30th and Walnut Sts. Baring 40. West 400.
Krakovitz, M., & Son	4th and Morris Sts. Dickinson 1539. Main 2468.
Metzger, Philip A.	1025 Jackson St. Dickinson 2200. Main 6062A.
Pelstring, Lewis R.	11th and Fitzwater Sts. Walnut 4513.
Penn Glazing Co.	1502 S. 8th St. Dickinson 1600.
Phila. Glass Works	1527 N. Marshall St. Diamond 8907W.
Pittsburgh Plate Glass Co.	11th and Arch Sts. Filbert 5221. Race 1395.
Schilling, Albert, & Co.	934 N. 13th St. Poplar 3986.
Shoemaker, Benj. H.	205 N. 4th St. Market 641. Main 1020.
Stott-Hecht Glass Works	429 N. 6th St. Market 616. Main 3234.
Travis Glass Co.	6047 Market St. Belmont 691.
Waxman, A., & Co.	420 N. 3rd St. Market 945. Main 31.
Western Glazing Co.	726 Passyunk Ave. Lombard 2604. Main 5084.

Have you read the Builders Guide this week

Glaziers.

Bell Phone.	Key. Phone.
Clark, M. H.	5915 Addison St. Belmont 3441.
Gladstone, Wm. F.	906 Cherry St. Walnut 1681.
Glassgold, S. S., & Co.	8th and Green Sts. Market 1145. Main 3407.
Griffey Decorative Co.	206 S. 13th St. Walnut 3275. Race 1493.
Miller, Samuel T.	2051 Federal St. Dickinson 1084.
Penn Glazing Co.	1502 S. 8th St. Dickinson 1600.
Phila. Glazing Co.	3rd and McKean Sts. Dickinson 1548. Main 3389.
Smith & Matesky	Stephen Girard Bldg. Walnut 3501.
Southward Glazing Co.	1824 S. 6th St. Dickinson 4931. Main 1986.
Union Glazing Co.	906 Cherry St. Walnut 1681. Race 1061.
Western Glazing Co.	726 Passyunk Ave. Lombard 2604. Main 5084.

Granite and Marble.

(See also Stone Cut.)

Bickel, John	3112 W. Lehigh Ave. Diamond 4753.
Birkmire's, John H., Sons	4445 Main St. Manayunk 843.
Brown, Virgil R.	6105 Ridge Ave. Roxboro 1018.
Carroll, Edward A., Co.	Pencoyd, Phila. Manayunk 166.
Clarke, John, & Co.	1533 N. 12th St. Poplar 5550.
Culley, John M.	Ridge and Lehigh Aves. Diamond 640.
Delahunty, Thomas	3821 Ridge Ave. Diamond 671.
Disney, Chas. A., & Son	5121 Frankford Ave. Frankford 1199. East 4203A.
Dodds, John A.	2929 Ellsworth St. Dickinson 764. Race 2092.
Ferguson, John	3489 Ridge Ave. Diamond 741.
Formigli Architectural Stone Co.	Widener Bldg. Walnut 5434.
Gallagher, P. F., & Co.	302 Mt. Airy Ave. Chestnut Hill 233.
Goshaw & McBride	6105 Ridge Ave. Roxboro 1018.
Hagan, John, & Co.	Comly, ab. Delaware Frankford 326. East 5.
Hegarty, John	2908 Howard St. Kensington 2969.
Herb, M.	15th and Haines Sts. Oak Lane 363.
Holmesburg Granite Co.	Commercial Tr. Bldg. Spruce 2171.
Jacoby & Son Co.	2025 Market St. Locust 101. Race 412.
Lake, H. R.	2537 N. 34th St. Diamond 855.
Maxwell's, John, Sons	30th, below Spruce Preston 2304. West 84.
Middleton, John	Broad and Haines Sts. Oak Lane 1163.
Miller, Chris	Wyoming and B Sts. Wyoming 368.
Miller Granite Co.	Bustleton Pike Somerton 112.
Moitz, M., Est. of	5513 Frankford Ave. Frankford 190.
Northwood Granite Works.	Broad and Haines Sts. Oak Lane 1163.
Peverly Bros.	1215 Filbert St. Locust 6392.
Reibstein, Benj.	425 S. 6th St. Walnut 2690.
Sales Engineering Co.	Widener Bldg. Walnut 2913.
Vermont Marble Co.,	22nd and Westmoreland Sts. Tioga 3157. Park 1050.
Wafer, Wm. A.	1245-65 Ridge Ave. Poplar 1844.
Webb Pink Granite Co.	Penfield Bldg. Walnut 1582.

Green Houses.

Bell Phone.	Key. Phone.
King Const. Co.	Harrison Bldg. Spruce 1659.
Lord & Burnham Co.	Land Title Bldg. Spruce 5291.
Myers, Robert V., & Son	5943 Chestnut St. Belmont 3670.
Myers & Co.	2217 N. 16th St. Diamond 4308.

Hardware (Builders').



Adams & Westlake Co.	2226 Ontario St. Tioga 2195. Park 75.
Central Hardware Co.	1716 Vine St. Spruce 2822.
Corbin, P. & F.	8th and Arch Sts. Market 2580. Main 2067.
Cusack Hardware Co.	1004 Arch St. Walnut 1004. Race 28.
Dwyer, J. A.	1606 Sansom St. Spruce 2257. Race 4393.
Field's, Chas. J., Sons	633 Market St. Market 2676. Main 2494.
Heib, William, Co.	445 N. 5th St. Market 3134.
Henderson, N. E., Hardware & Paint Co.,	1320 Race St. Locust 4166. Race 3020.
Hendrickson, T. B. & H. S.	521 Commerce St. Market 706. Main 2486.
Magen Hardware Co.	5219 Market St. Belmont 3559. West 643.
Mort Hardware Co.	4th and Girard Ave. Market 4430. Park 4818A.
Mousley's, Charles, Sons	457 N. 12th St. Poplar 4296. Race 5881A.
Murta, Appleton & Co.	12th and Sansom Sts. Filbert 2389. Race 596.
Peters, James, & Son	1934 N. Front St. Kensington 4225. Park 806-07.
Reading Hardware Co.	816 Arch St. Walnut 3163. Main 3100.
Richards-Wilcox Mfg. Co.	507 Arch St. Market 274. Main 3019.
Sargent & Co.	521 Market St. Market 2383. Main 4020.
Sees & Faber Co.	2008 N. Front St. Kensington 5140. Park 754.

Hardware (Builders')—Continued.

Bell Phone.	Key. Phone.
Shannon, J. B., Hardware Co.	816 Chestnut St. Filbert 2274. Main 93.
Shannon, J. Jacob, Co.	1744 Market St. Spruce 1744. Race 1744.
Shields & Bro.	521 Market St. Market 2383. Main 4020.
Simmons Hardware Co.	425 Arch St. Market 3768. Main 3966.
Soeffing, Adolph, & Co.	833 Arch St. Filbert 2574. Main 833.
Supplee-Biddle Hardware Co.	517 Commerce St. Market 4050. Main 4200.

Hardwood Floors.

Ambacher, Geo. J.	2430 Glenwood Ave. Diamond 5732.
American Parquetry Floor Co.	1218 Chestnut St. Filbert 3829. Race 5883D.
Armstrong, Geo. B.	341 E. Wyoming Ave. Wyoming 391.
Birney, David	3031 Belgrade St. Kensington 966.
Birney, James	2735 E. Somerset St. Kensington 1583.
Frederick, Nicholas	928 N. 29th St. Poplar 909.
Friedl, Rudolph	1430 Germantown Ave. Kensington 6811.
Friedrich, John	2922 Cambridge St. Poplar 7254W.
Fritz & LaRue, Inc.	2025 Cuthbert St. Locust 1216.
Geier, John	1237 W. Girard Ave. Poplar 4690.
Gerry, Fredk. R. Co., The	1835 Market St. Dickinson 874. Race 1166.
Getz, Max F.	59th and Ludlow Sts. Belmont 3617.
Goldman, Max	2538 S. Darien St. Dickinson 4722W.
Gourdier, A.	12 N. 19th St. Locust 1356.
Haas, A. N.	5651 Cherry St. Belmont 344J.
Haverford Hardwood Flooring Co.,	5038 Haverford Ave. Belmont 7329.
Heaton & Wood	1802 Chestnut St. Spruce 3132. Race 310.
Herbert, W. A., & Son	5430 Haverford Ave. Belmont 760.
Landgraf, Samuel P.	5421 Vine St. Belmont 8045.
Lukens, W. W., & Co.	1518 Sansom St. Spruce 5264. Race 407.
O'Neill, John	4144 Westminster Ave. Baring 1841.
Osinoff, Isaac	5929 Chestnut St. Belmont 4466.
Ostendorf, W. G.	2923 N. Broad St. Tioga 4327.
Palmer & Co.	5214 Race St. Belmont 2685.
Penna. Parquetry Floor Co.	2430 Glenwood Ave. Diamond 5732.
Pinkerton, Andrew	28th and Arizona Sts. Diamond 435.
Phila. Hardwood Flooring Co.	33rd and Master Sts. Poplar 2837.
Rotfeld, Jacob	3867 Wyalusing Ave. Preston 5849.
Russell & Smith	3440 N. 5th St. Kensington 6950.
Williamson & Messinger	2730 N. Broad St. Tioga 4503. Park 284.
Wyoming Parquetry Co.	724 Wingohocking Ave. Tioga 4400.

Heating Boilers, Furnaces.

(See Furnaces, Boilers, Radiators.)

HEATING CONTRACTORS

Bell Phone. Key. Phone.

Allston, Chas. V. .....521 N. 20th St.
Poplar 1408.
Alexander, Wm. H. .....5553 Spruce St.
Belmont 3449.
Ambrose, Wm. H. ..Leverington and Umbria Sts.
Manayunk 844.
American Heating & Ventilating Co.200 N. 15th St.
Locust 2936.
Anderson, W. M. .....600 Schuylkill Ave.
Locust 1441. Race 897.
Apeldorn & Beatty Co., Inc.....155 N. 9th St.
Walnut 1168. Main 1664.
Bachler, C. F. .....152 N. 6th St.
Market 1753.
Baker, Smith & Co., Inc. .....135 N. 22nd St.
Locust 3687.
Baldwin Co. .....Finance Bldg.
Locust 6535.
Baral Hardware & Heating Co., Inc.,
1022 Columbia Ave.
Poplar 3750. Park 5080A.
Barclay, Alexander M. .....113 N. 6th St.
Market 1835. Main 5667A.
Bartholmew, R W., & Son..2032 Germantown Ave.
Diamond 7629.
Bartlett & Co., Inc. .....1938 Market St.
Locust 2665. Race 134.
Bayley Mfg. Co. .....308 Chestnut St.
Lombard 846.
Berle, Adam .....1800 N. 12th St.
Diamond 4777.
Berrell Heating Co. .....1120 Walnut St.
Walnut 1554.
Best Register Co. .....205 S. 9th St.
Walnut 6743.
Betz, Berthold E. .....804 N. 24th St.
Poplar 5471.
Bishop & Babcock Co. .....Crozer Bldg.
Spruce 2155.
Black, E. C. .....1720 Frankford Ave.
Kensington 6329.
Black, Harry .....2947 N. 5th St.
Kensington 4833.
Borden, John, & Bro. .....637 N. 19th St.
Poplar 2491.
Bowers Bros & Co. .....1629 Ludlow St.
Spruce 424. Race 4356.
Bradbury, Frank C. .....1615 Sansom St.
Spruce 4201.
Breen, Maj Jos. W. ..Wyalusing and Fallon St.
Belmont 9292.
Brinkmann Bros. .....2617 Frankford Ave.
Kensington 1262. East 4400D.
Brown, S. E., Heating Co. .....18 S. 7th St.
Market 3582.
Bryan, M., & Son .....919 N. 7th St.
Market 2758W.
Bucknam, A. L. .....135 N. 3rd St.
Market 1430.
Burke, Horace R. .....12th and Buttonwood Sts.
Poplar 1490.
Buzby, Wm. R., & Son .....5324 Rising Sun Ave.
Wyoming 366.
Callahan, Charles .....42 N. 2nd St.
Market 3035. Main 70.
Carkeek, H. T. .....Bourse Bldg.
Lombard 490.
Carroll, Wm. A. .....155 N. 10th St.
Filbert 2481.
Coburn, Geo. A. .....7216 Germantown Ave.
Chestnut Hill 883.
Colbert, Francis M., Inc. .....5208 Baltimore Ave.
Woodland 2293.
Connolly, N. .....1905 Ridge Ave.
Poplar 4878. Park 448.
Cornell, W. G., Co. .....Colonial Trust Bldg.
Locust 5657. Race 2926.
Cunningham, Thomas J. .....1923 Orthodox St.
Frankford 1887.
Daugherty, Wm. S. .....5931 Cedar Ave.
Belmont 7008.
Davis & Hunsicker .....1633 Spencer St.
Oak Lane 1054W.
Dey, Charles .....1723 Ludlow St.
Locust 3079.
Dickson, John .....103 E. Chelten Ave.
Germantown 408.
Donohue, Joseph F. .....318 N. 54th St.
Belmont 3346W.
Donovan, Wm. J. .....1832 Ingersoll St.
Poplar 569.

Bell Phone. Key. Phone.

Dougherty, Frank P.,
Passyunk Ave. and Juniper St.
Dickinson 436.
Dunham, C. A., Co. .....Witherspoon Bldg.
Walnut 813. Race 2323.
Earley's, Wm., Sons .....1216 Ridge Ave.
Poplar 2992.
Edgar Heating Co. .....1802 Chestnut St.
Locust 1943.
Elliott, H. Paul .....1344 Lindley St.
Wyoming 329.
Faith, S., & Co. .....2427 Pennsylvania Ave.
Poplar 726. Race 211.
Fehrle, Geo. .....2514 Frankford Ave.
Kensington 1613.
Florence, Andrew .....2206 Columbia Ave.
Poplar 5027.
Fluck, Fred .....543 N. 8th St.
Market 2424.
Fox & Long .....3041 Ridge Ave.
Diamond 5808.
Garrett, Robt. T. .....543 N. 8th St.
Market 2424.
Geiger, August .....114 N. 6th St.
Market 2476. Main 6126A.
Germantown Steam Co. .....349 W. Hortter St.
Germantown 3516.
Gordon, Wm., Corp. .....30th and Walnut Sts.
Preston 5613.
Gormly, P., Co. .....155 N. 10th St.
Filbert 2481. Race 890.
Guarantee Plumbing & Heating Co.,
5444 Spruce St.
Belmont 2728.
Haines, Wm. S., & Co..12th and Buttonwood Sts.
Poplar 1590.
Haynes Selling Co. .....1711 Sansom St.
Spruce 480. Race 636.
Halinan, James F. .....5218 Vine St.
Belmont 3300.
Henricks, A. F. .....907 Locust St.
Walnut 2099. Main 5973A.
Hermann, Andrew..Newkork and Thompson Sts.
Poplar 4433.
Hersh & Bro. .....Perry Bldg.
Spruce 623.
Hill & Dougherty .....228 Arch St.
Market 828. Main 1015.
Hirsch Bros. .....1130 W. Columbia Ave.
Poplar 2318.
Hopkin, Chas. E. Co. .....107 Bethlehem Pike
Chestnut Hill 114.
Hoben, Robert J. .....261 S. 21st St.
Spruce 2587. Race 1172.
Jellett, Stewart A. .....Real Estate Trust Bldg.
Filbert 3792. Race 2235.
Jester, David A. .....5330 Germantown Ave.
Germantown 1616.
John, Benj. E. .....1903 Race St.
Walnut 1419.
Jones Heating & Roofing Co. .....733 Green St.
Market 690.
Jost Bros. .....4817 Germantown Ave.
Wyoming 3032.
Judge, Eugene F. .....3003 Richmond St.
Kensington 1833.
Kahler, Oscar A. .....3103 N. 15th St.
Tioga 7929. Park 315.
Kaercher, Albert F. .....2904 Fletcher St.
Diamond 4159.
Kelly, J. J., Cont. Co., Inc..York R'd & Broad St.
Oak Lane 1504.
Koffman, Bennie .....1805 S. 6th St.
Dickinson 6492.
Kriebel & Co. .....822 Green St.
Market 680.
Keating, Daniel J. .....274 S. 20th St.
Spruce 2821.
Keystone Heating & Equipment Co.,
1321 S. Juniper St.
Dickinson 1886. Race 3937.
Landau, B. .....1216 N. 4th St.
Kensington 827. Park 5551A.
Lodge, Harry F. .....1633 Ranstead St.
Locust 408. Race 4436.
McGuckin, J., & Bro. .....1023 Christian St.
Filbert 5828. Main 914.
McVeigh, John A. .....2061 Ridge Ave.
Poplar 369.

Bell Phone. Key. Phone.

MacBride, A., & Co. .....1341 Girard Ave.
Poplar 1822. Park 1117.
Makin Heating Co. .....1827 Filbert St.
Locust 1249. Race 2581.
Middleton, Harry N. .....135 N. 3rd St.
Market 1430.
Miller, W. C. .....Lafayette Bldg.
Lombard 2188.
Modern Plumbing & Heating Co., Inc.,
3621 Market St.
Baring 1964. West 284.
Moline Heat .....1716 Ludlow St.
Locust 2165.
Murphy, Harry F., & Co., Inc. ...1615 Sansom St.
Spruce 4201. Race 422.
Monitor Bi-Loop Radiator Co. ....Finance Bldg.
Spruce 3995.
Murphy, George D. .....7114 Germantown Ave.
Chestnut Hill 2194W.
Nathans, John J., Jr. .....3015 Edgemont Ave.
Kensington 4610.
National Heating & Ventilating Co..Drexel Bldg.
Lombard 4439. Main 4443.
Nelson, Joseph W.....1873 E. Westmoreland St.
Frankford 766.
O'Meara, William .....1423 Dickinson St.
Dickinson 989.
Pavonarious Bros. .....1211 Ritner St.
Dickinson 2817.
Payson, Edw. .....Chelten Ave. and Lambert St.
Oak Lane 1524.
Penna. Eng. Co. .....1119 N. Howard St.
Market 1374. Park 4388D.
Pflug-Felder, Robt. H. .....8th and Norris Sts.
Diamond 7562. Park 7.
Phila. Steam Heating Co.Juniper and Cherry Sts.
Locust 4576. Race 3414.
Powell, Fred H. .....1732 N. 19th St.
Diamond 4788.
Raynor Plumbing Co., Inc....1332-34 McKean St.
Dickinson 160.
Reynolds, J., & Son .....1613 Filbert St.
Spruce 3649. Race 5528A.
Roberts, Edw. F. .....2622 Columbia Ave.
Poplar 1127. Park 927.
Rumford Heating Co. .....11th and Jefferson Sts.
Poplar 4559.
Roberts, H. L. .....228 N. 16th St.
Spruce 4697.
Roxborough Plumbing & Heating Co.,
6168 Ridge Ave.
Roxborough 2244.
Sabin, Edw. R., & Co. ....63rd and Walnut Sts.
Belmont 7640. West 552.
Sabin, Frederick, & Co., Inc. .....237 Bread St.
Market 1200. Main 2191.
Schwartz & Lieb .....125 S. 60th St.
Belmont 4747.
Schweppenheiser Bros. .....3709 N. Sydenham St.
Tioga 2592.
Scott, Robt., Inc. .....4th and Florist Sts.
Market 4686.
Shea, James M. .....3013 Richmond St.
Kensington 4735.
Shriver, Charles M. .....Wyndmoor
Chestnut Hill 505.
Shuster, Champion G. .....1318 Girard Ave.
Poplar 799. Park 4964A.
Sidebothom, Harry .....1724 S. 55th St.
Woodland 6989.
Spear, James, Stove & Heating Co.,
1823 Market St.
Spruce 2470. Race 753.
Sommer, Louis J., & Son .....2436 Brown St.
Poplar 4737. Race 5789A.
Specialty Heating & Contracting Co.,
2208 N. 17th St.
Diamond 485.
Steinbacker, Otto .....3958 N. 5th St.
Tioga 4657. Park 4612A.
Tinnermann & Co. .....61 N. 60th St.
Belmont 620. West 347.
Trachsel, John C. F. .....230 Arch St.
Market 2481. Main 1197.
Trane Company .....18 S. 7th St.
Market 4548. Main 6685.
Tubular Heating & Ventilating Co..232 Quarry St.
Market 2654. Main 1960.
Vapor Heating Co. .....North American Bldg.
Filbert 2280.

Heating Contractors—Continued.

Bell Phone.	Key. Phone.
Vapor Vacuum Heating Co.	Otis Bldg. Spruce 3175.
Walters, Purks & Mellon	4419 Ludlow St. Preston 2186. West 520.
Webster, Warren & Co.	Stephen Girard Bldg. Filbert 2623. Race 918.
Wenzell Heating Co.	2809 N. Mervine St. Tioga 5889.
White, Wm. J.	408 Walnut St. Lombard 1819.
Whitlock Heater Agc.	Commercial Trust Bldg. Locust 2390.
Wismer, George W.	523 N. 40th St. Preston 4555. West 429.
Wood, James P., Co.	239 N. 4th St. Market 127.
Woods, Frank Z., & Son	61 N. 41st St. Preston 3732.
York Heating & Ventilating Corp.,	250 S. Broad St. Spruce 3875.
Young, Albert E.	1625 Margaret St. Frankford 1738W.

House Wrecking.

American Wrecking & Contracting Co., Inc., 3018 Chestnut St. Baring 2004.
Central House Wrecking Co., 12th and Spring Garden Sts. Poplar 1136.
Franklin House Wrecking Co. 526 N. 5th St. Market 4426. Main 4892A.
Gault, J. J., House Wrecking Co. 204 N. 22nd St. Spruce 4328.
Heavey, Charles D. 514 N. 61st St. Belmont 7424.
Jump House Wrecking Co. 30th bel. Callowhill St. Preston 6671. West 710.
Ridgway Contg. Co. 750 S. Juniper St. Walnut 3778.
South Phila. House Wrecking Co. 1313 S. 2nd St. Lombard 2465.

Interior Decorators.

(See Decorators.)

Interior Woodwork.

(See Cabinet Work.)

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Allen Iron & Steel Co.	3rd and Venango Sts. Kensington 6684. Park 136.
American Bridge Co.	Widener Bldg. Walnut 5200. Race 1701.
American Steel & Engineering Co.	1614 Cherry St. Locust 1975.
Atlas Erecting & Mfg. Co.,	610 Birch St., Camden, N. J. Camden 2949W. Camden 268.
Aubel, F. & E.	2503 Germantown Ave. Diamond 5280. Park 5141D.
Audubon Wire Cloth Co., Inc.	Audubon, N. J. Haddon Heights 573. Main 3597.
Baizley, John, Iron Works.	514 S. Delaware Ave. Lombard 2282. Main 3550.
Barnes, Winfield S., & Co.	20th & Erie Ave. Tioga 6761. Park 1389.
Bear Eng. & Const. Co.	1712 Ludlow St. Spruce 4211. Race 2671.
Belmont Iron Works.	22nd and Washington Ave. Dickinson 511. Race 2001.
Berko Bros.	Randolph and Wood Sts. Market 317. Main 1340.
Bethlehem Steel Co.	Morris Bldg. Spruce 200.
Biggin, Charles P., Co.	1829 Harlan St. Poplar 1877. Park 566.
Bingham, G. L.	250 N. Marvine St. Walnut 1952.
Boureau, H. U., & Co.	3302 Ludlow St. Preston 4869. West 254.
Clopp, George B.	3717 Filbert St. Preston 4731. West 370.
Columbia Iron Works	246 N. 5th St. Market 3036. Main 4214.
Coyle, H. B., Iron Works	622 Filbert St. Market 1509.
Creswell, Samuel J., Iron Works, The,	23rd and Cherry Sts. Locust 524, Race 3450.
Cameron, W. P., Engineering Co.,	Witherspoon Bldg. Walnut 4611. Race 1473.
Davies Structural Iron Works,	20th and Clearfield Sts. Tioga 2199.
DeCou, Richard, Co.	12th and Noble Sts. Poplar 276. Race 4350.
Forgy & Wrigley	2018 S. 19th St. Dickinson 205.
Heberle, Eugene	Vodges and Summer Sts. Belmont 4439.
Hitner's, Henry A., Sons Co.	Gaul and Hazzard Sts. Kensington 5434. East 1.
Horrocks Iron Works, The	234 N. Broad St. Spruce 4178. Race 1943.
Humphreys & Co.	Front and Tusculum Sts. Kensington 1579. East 559.
Lederle, Robert B.	Witherspoon Bldg. Walnut 1274. Race 1974.
McCalla Co., The Harold	531 N. Fourth St. Market 3012. Main 886.
Matthews, S. G., & Co.	2016 W. Lippincott St. Tioga 2397. Park 670.
Montgomery Iron & Steel Co.	1832 N. 9th St. Diamond 5871-72. Park 1747-48.
Morris, Wheeler & Co.	30th and Locust Sts. Preston 5900. West 680.
Moss, J. E., Iron Works	26 S. 15th St. Locust 1706. Race 5729D.
Noe-Wadlow Co.	2nd and Oxford Sts. Kensington 2841. Race 265.
Parvin & Co.	Stephen Girard Bldg. Filbert 2841. Race 265.
Pettit, Frank, Ornamental Iron Works,	809 Master St. Kensington 6652. Park 35.
Phoenix Iron Co.	22 S. 15th St. Locust 4660.
Reisbord, W.	4443 Ludlow St. Baring 7710.
Richmond & Kemp	1836 Germantown Ave. Diamond 9725. Park 465.
Rochlis, S.	1518 N. 5th St. Diamond 1546.
Smyser-Royer Co.	1225 Race St. Locust 3971. Race 3855.
Stang & Mitchell	Real Estate Trust Bldg. Walnut 3097. Race 313.
Steel & Wike Co.	533 N. 13th St. Poplar 4551. Race 3750-51.
Steward & Stevens Iron Works	1724 N. 9th St. Diamond 7511. Park 470.
Sutton, W. A., & Co.	926 N. 19th St. Poplar 1726. Race 5869D.
Van Dorn Iron Works Co.	2016 Lippincott St. Tioga 2397. Park 670.
Wager-Smith, E.	1613 Sansom St. Spruce 3179.
Ward, Joseph T., Co.	5809 Baynton St. Germantown 3555.
Wayne Iron Works	Commercial Trust Bldg. Spruce 520. Race 553.
Wehmeyer & Bill	1708 Sansom St. Spruce 2149. Race 572.
Wood, Alan, Iron & Steel Co.	Widener Bldg. Walnut 5120.

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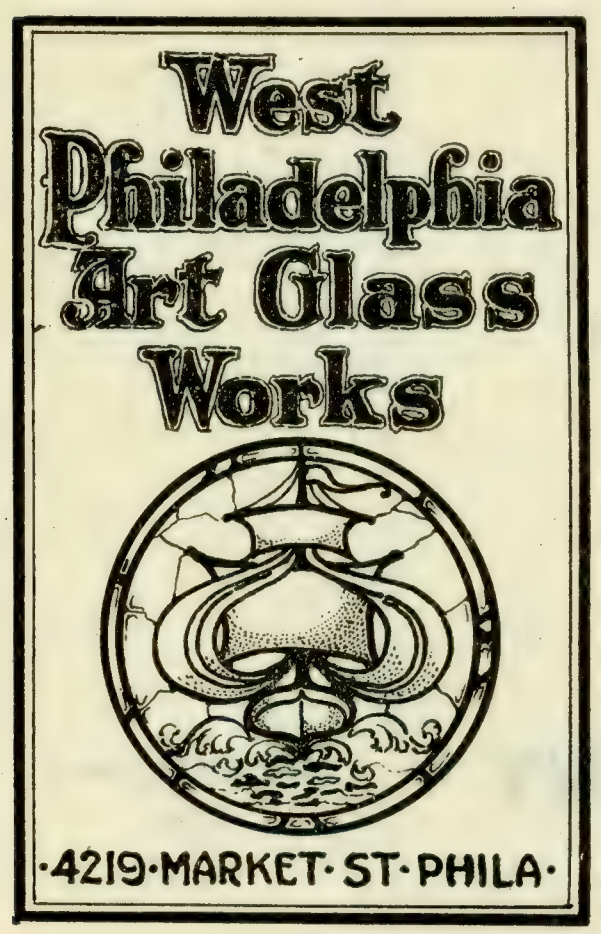
Bell Phone.	Key. Phone.
Horst Bros.	137 N. 6th St. Market 3048. Main 3412.
Krewson, T. C.	803 Master St. Kensington 5295.
Moulton, C. W. H., Co.	134 N. 4th St. Market 4911. Main 313.

Landscape Work.

Bell Phone.	Key. Phone.
Adams, Louis S.	1530 Walnut St. Spruce 4686.
American Forestry & Gardening Service,	819 Church Lane Germantown 1634.
Andorra Nurseries	Chestnut Hill Chestnut Hill 940.
Britton, Robert S.	S. W. Cor. 60th and Pine Sts. Belmont 4853J.
Cridland, Robt. B.	Bailey Bldg. Walnut 1587.
Crinage & Co.	6318 Lambert St. Oak Lane 754.
Exley & Kite	1823 Walnut St. Locust 2030.
Fasano, Matleo	4907 Wayne Ave. Wyoming 1061.
Fleu, Conyers B., Jr.	6630 Ross St. Germantown 6022.
General Const. & Eng. Corp.	727 E. Chelten Ave. Germantown 1891.
Gross, Philip M., & Bro.	5229 Pulaski Ave. Manheim 3674W.
Harrison, Mertz & Emlen, Inc.,	Commercial Trust Bldg. Spruce 2268. Race 5060.
Hengel Bros.	2095 N. 63rd St. Overbrook 4678.
Lathrop, John P. P.	6324 City Ave. Overbrook 2680.
Manwaring & Cummings, Inc.,	5600 Germantown Ave. Germantown 5592.
Meehan, J. Franklin	Chew and Phil-Ellena Sts. Germantown 297.
Morse, Leonard	1524 Chestnut St. Locust 539.
Outdoor Arts Co., Inc.	8438 Germantown Ave. Chestnut Hill, 2077.
Paul & Ford	1424 Walnut St. Locust 6600.
Sears & Wendell	1424 Walnut St. Spruce 2264.
Thorpe, Chester D.	176 E. Tulpehocken St. Germantown 374.
Winfield & Sulsey	187 W. Price St. Germantown 3344W.

Leaded Glass.

(See Stained and Art Glass.)



Lighting Fixtures.

(See Gas and Electric Fixtures.)

Lime.

Bell Phone.	Key. Phone.
Blue Bell Lime & Stone Co.,	Commercial Trust Bldg. Locust 3598.
Bradley, Walter T., Co.	9th and Thompson Sts. Kensington 5414. Park 741.
Cox, C. A., Sons	2137 American St. Kensington 2756. Park 1041.
Fairlamb, P. H., Co.	115 S. 30th St. Preston 4537. West 184.
France, David, Co.	Tasker St. Wharf, Del. River Dickinson 1513. Main 1665.
Frankford Coal & Lime Co.	4430 Penn St. Frankford 125.
Gilbert, Harry W.	9th and Venango Sts. Tioga 4712. Park 1036.
Gerbron, Joseph C.	Cheltenham Fox Chase 100.
Jarden, W. A., & Co.	55th and Lancaster Ave. Belmont 1293. West 4696A.
Kelley Island Lime & Transport Co.,	Penna. Bldg. Locust 6780.
Kelley's, M., Sons	4040 Poplar St. Preston 5416. West 4538D.
Kelter, John H., Co.	13th and Shunk Sts. Dickinson 1461. Race 5072.
Kerbaugh Lime Co.	1506 Washington Ave. Dickinson 535. Race 3054.
Knickerbocker Lime Co.	364 N. 24th St. Locust 200. Race 500.
Knickerbocker Lime Co.	Finance Bldg. Spruce 2913. Race 1512.
Lotz, F. C., & Son	American and Dauphin Sts. Kensington 2250. Park 904.
Lukens & Yerkes	Stephen Girard Bldg. Filbert 5861.
Phila. Builders' Supply Co.,	2nd and Duncannon Sts. Wyoming 2120.
Phila. Lime Co., Inc.	15 N. 5th St. Market 1506.
Sinn's, George A., Sons	4430 Penn St. Frankford 125. East 212.
Warner, Charles, Co.	Finance Bldg. Spruce 4484. Race 639.

Lockers—Steel and Shelving.

Bernstein Mfg. Co.	3rd and Allegheny Ave. Kensington 680. Park 931.
Darby, Edward, & Sons Co., Inc.	412 N. 18th St. Locust 823. Race 5157.
Hart & Hutchinson Co.	Real Estate Tr. Bldg. Walnut 944.
Lyon Metallic Mfg. Co.	Bulletin Bldg. Locust 5581.
Medart, Fred, Mfg. Co.	140 N. 6th St. Market 2464.
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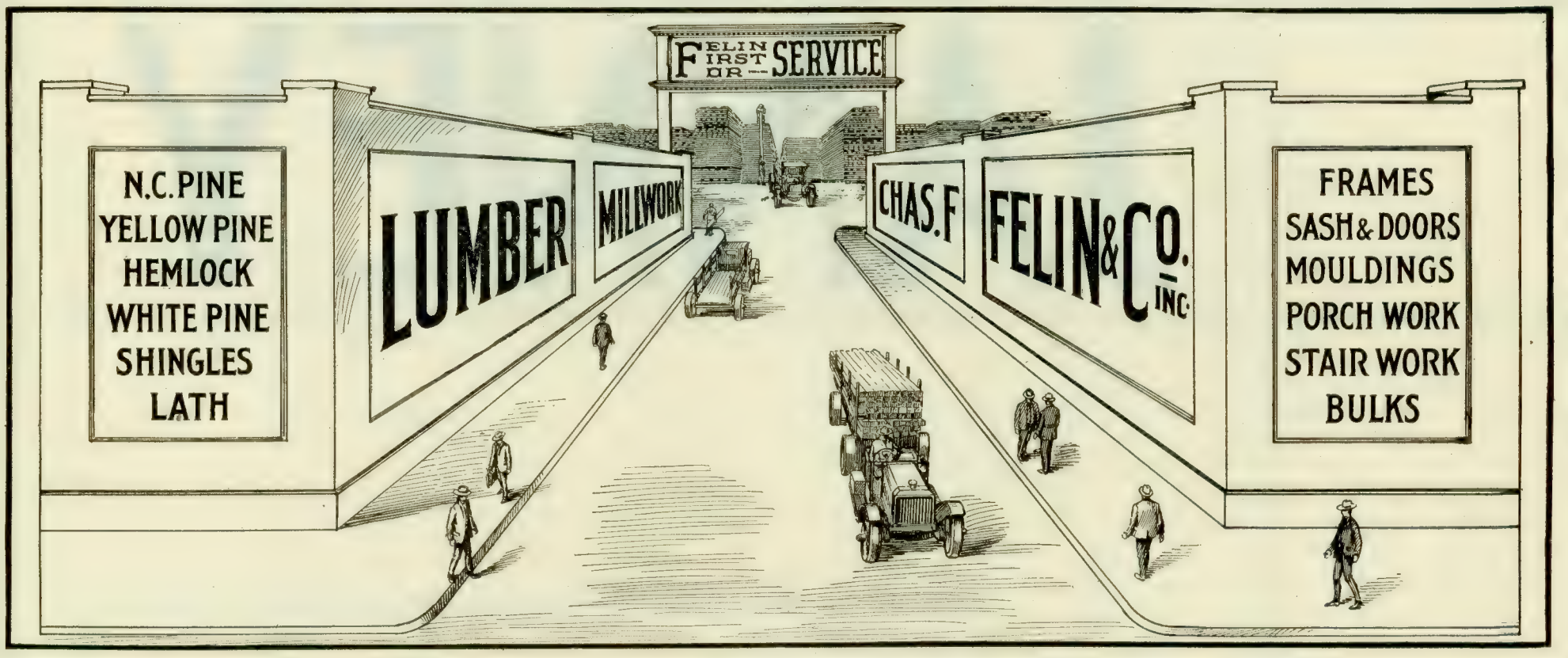
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Allen, Ellwood, Lumber Co.,	Trenton Ave. and Ann St. Kensington 2767. East 15.
Benton, Chas., Lumber Co., Inc.	1403 S. Front St. Dickinson 1517. Main 1138.
Buck, Daniel, Estate	1505 N. 5th St. Diamond 2686. Park 253.
Buzby, C. M., & Sons	626 Washington Ave. Lombard 2917. Main 3531.
Clark, Charles H.	108 Dickinson St. Dickinson 1553. Main 3426.
Coale, Thos. E., Lumber Co.,	26th and Susquehanna Ave. Diamond 2020. Park 538.
Collins, Jos. H. & Son.	12th and Glenwood Ave. Tioga 2185. Park 225.
Derr, John H.	6326 Market St. Belmont 4391. West 414.
Doering & Beatty	3rd and Allegheny Ave. Kensington 1495. Park 150.
Este, Chas., Co., Inc.	3rd and Allegheny Ave. Kensington 1495. Park 150.
Felin, Chas. F., & Co., Inc.,	York Road ab. Butler St. Tioga 3460. North 1.
Geissel & Richardson	Ridge and Master St. Poplar 2165. Park 563-564.
Gerbron, Joseph C.	Cheltenham Fox Chase 100.
Gibson & Walker	2569 Gray's Ferry Road Dickinson 44. Race 355.
Gillingham, Frank C., & Son Co.,	Richmond and Norris Sts. Kensington 2343. East 76.
Gucker Bros.	Prospect Ave., Chestnut Hill Chestnut Hill 2.
Guenther Lumber Co.	26th and Gray's Ferry Rd. Dickinson 615. Race 1994.
Hall Bros. & Wood	54th and Lancaster Ave, Belmont 3765.
Henson, Edw. F., & Co.,	Delaware Ave. and Poplar St. Market 3204. Park 655
Hoy Lumber Co.	8135 Eastwick St. Woodland 5193.
Irwin, James M., & Co.	973 Beach St. Market 2108. East 232.
Janney Lumber Co.	1147 Beach St. Kensington 990. East 149.
Jones, M. W.	229 Church Lane Germantown 340.
Keely, S. S., & Sons	Main and Umbria Sts. Manayunk 4.
Ketcham, Howard	3rd and Girard Ave. Market 1337. Park 595.
Kugler, Victor E.	919 New Market St. Market 2575.
Lear, W. H.	830 East Girard Ave. Kensington 1626. East 575.
Lilly, Wm. S.	2416 Callowhill St. Locust 1229. Race 1569.
Lloyd, Wm. M., Co.	29th and Ridge Ave. Diamond 6400. Park 861.
McIlvain, J. Gibson, & Co.,	59th and Woodland Ave. Woodland 2988. West 660.
Magargal, Samuel H.	319 Montrose St. Lombard 2733. Main 1201.
Malone, Watson & Sons	Laurel St. Wharf Market 3805. East 350.
Maule, Charles P.	2500 South St. Locust 1149. Race 5898D.
Miller, Robinson, & Co.	6th and Sedgley Ave. Kensington 2215. Park 701.
Moore, John W.	2619 Susquehanna Ave. Diamond 511.
Nass, George & Son.	Glenwood and Dauphin Sts. Diamond 3220. Park 1640.
Nickel, Wm. F., Jr.	337 New Market St. Market 474. Main 2829.
Pearson & Ludascher Lumber Co.,	Westmoreland and Delaware Ave. Kensington 2258. East 495.
Phila. Building Material Co.	Widener Bldg. Walnut 5770.
Riley, J. T.	620 Pine St. Walnut 2198. Main 689.
Ross Co., The J. Anderson	2917 N. Broad St. Tioga 4746.
Shaw, James	52nd and Woodland Ave. Woodland 872. West 407.
Sheip, Henry H., Mfg. Co.	6th and Columbia Ave. Diamond 8311. Park 373.
Sheip & Vandegrift	812-32 N. Lawrence St. Market 2665. Park 167.
Slonaker, John & Co.	5th and Clearfield Ave. Tioga 7194. Park 652.
Smedley Bros. Co.	Church and Tacony Sts. Frankford 1120. East 235.
Smith, J. E., & Sons	1314 Washington Ave. Dickinson 2676. Race 66.
Spiegel, Geo. M., & Co., Inc.,	18th and Somerset Sts. Diamond 7147. Park 202.
Stoker, Geo. W., & Son	34th and Market Sts. Preston 2314. West 120.
Stringer, Howard L.	8th St., bel. Diamond St. Diamond 7679.
Stroud & Wilgus	522 Richmond St. Kensington 122. East 450.
Tacony Lumber Co.	Cottman St., Tacony, Phila. Tacony 256.
Tague, James E., & Co.	10th and Columbia Ave. Diamond 5030. Park 1010.
Ternan & White	20th and Glenwood Ave. Diamond 326. Park 1090.
Torpin, Richard, & Co.	6th and Clearfield Sts. Tioga 2189. Park 1029.
Vrooman, S. B., Co., Ltd.	1133 Beach St. Kensington 1275. East 30.

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Warner, John	1707 Hunting Park Ave. Tioga 5993. North 101.
Weitzel Lumber Co.	Germant'n and Sedgley Aves. Tioga 8775. Park 553.
White, Chas. H., & Sons Co., Inc.,	18th and Indiana Ave. Diamond 7155. Park 329.
Williams, R. A. & J. J., Co.	22nd and York Sts. Diamond 415. Park 620.
Wisler, Chas. H.	American and Cumberland Sts. Kensington 1669. Park 4970D.
Wister, Heberton, C. W.	Rittenhouse and P. R. R. Germantown 72.

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(See Granite and Marble.)

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Barber Asphalt Co.	239 N. 30th St. Preston 3586.
Barrett Mfg. Co.	36th and Gray's Ferry Road Dickinson 6040. Race 4100.
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Johns-Manville, H. W., Co.	210 N. Broad St. Locust 1152. Race 4200.
Stone, Junius H.	1530 Chestnut St. Locust 2524.

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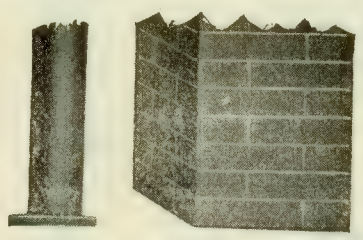


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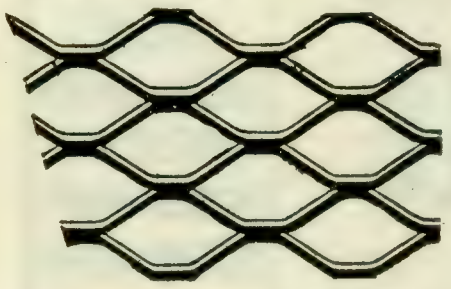
Bell Phone, Dickinson 4600 — Keystone Phone, Race 1581

Metal Ceilings—Continued

Bell Phone.	Key. Phone.
Berger Mfg. Co.	16th and Washington Ave. Dickinson 1443. Race 3920.
Penn Metal Co., Ltd	25th and Wharton Sts. Dickinson 4600. Race 1581.
Wheeling Corrugating Co.	1234 Hamilton St. Poplar 2617. Race 3994.

Metal Lath and Expanded Metal.

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All Guages carried in stock Painted and Galvanized

Expanded Metal
Guards — Reinforcement

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Kno-Fur—Corrugated—Acid-Resisting—Diamond Mesh Lath

Chanelath
Rib Lath --Flat Lath

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Pearce Fireproof Co.
SERVICE
1345 ARCH STREET, PHILA., PA.

Berger Mfg. Co.	16th and Washington Ave.	Dickinson 1443. Race 3920.
Bostwick Steel Lath Co.	2324 Callowhill St.	Locust 956. Race 4279.
Consolidated Expanded Metal Cos.	2200 Arch St.	Spruce 1076. Race 4288.
General Fireproofing Co.	Bulletin Bldg.	Spruce 5837. Race 1546.
Knickerbocker Lime Co.	Finance Bldg.	Spruce 2913. Race 1512.
Knickerbocker Lime Co.	24th bel. Callowhill St.	Locust 200. Race 500.
McCalla, Harold, Co.	531 N. 4th St.	Market 3012. Main 886.
Mahoning Lath Co.	2623 W. Sergeant St.	Diamond 2356.
New Jersey Wire Cloth Co.	223 Arch St.	Market 2751. Main 2780.
Noe-Wadlow Co.	2nd and Oxford Sts.	Kensington 661. Park 1345.
Pearce Fireproof Co.	1345 Arch St.	Locust 3924. Race 4434.
Penn Metal Co., Ltd	25th and Wharton Sts.	Dickinson 4600. Race 1581.
Sales & Engineering Co.	932 Chestnut St.	Filbert 5777.
Truscon Steel Co.	Commonwealth Bldg.	Walnut 660. Race 3472.
Wilson, F. J., & Co.	Land Title Bldg.	Locust 2312. Race 177.

Metal Lath—Continued.

Metal Lath

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Angles
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Corner Beads

THE HAROLD McCALLA CO.
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Philadelphia

Bell Phone Market 3012 — Keystone Phone Main 886

Metal Lath Contractors.

Bell Phone.	Key. Phone.
Connor, John L.	1345 Arch St. Spruce 1769.
Conroy Bros., Inc.	Shubert Bldg. Spruce 3807.
Friel, E. B., Co., Inc.	2146 E. Norris St. Kensington 5747. East 618.
Raynor, John S.	3571 Stouton St. Belmont 5342J.
Venzie, F. M., & Co.	2610 W. Huntingdon St. Diamond 209. Park 1478.

Metal Roofing and Siding.

Acme Tin Plate & Roofing Supp. Co.,	2325 Germantown Ave.	Diamond 8530.
American Tin & Terne Plate Co.,	24th and Vine Sts.	Locust 165. Race 2171.
Asbestos Protected Metal Co.,	Real Estate Trust Bldg.	Walnut 582. Race 1377.
Berger Bros. Co.	229 Arch St.	Market 1551. Main 2030.
Berger, L. D., & Co.	59 N. 2nd St.	Market 554. Main 4000.
Berger Mfg. Co.	16th and Washington Ave.	Dickinson 1443. Race 3920.
Carter, Donlevy & Co.	1012 Cherry St.	Filbert 4995. Race 187.
Cortright Metal Roofing Co.	50 N. 23rd St.	Locust 913. Race 698.
Gummey-McFarland & Co.	147 N. 10th St.	Filbert 2478. Race 3830-31.
Hall & Carpenter	518 Race St.	Market 4100. Main 671.
Knoedler, Fred. & Co.	68 N. 2nd St.	Market 1720. Main 4653.

Metal Roofing and Siding—Continued.

Bell Phone.	Key. Phone.
Lupton's, David, Sons Co.	Allegheny and Tulip Kensington 1690. East 21.
Marshall Bros. & Co.	Front and Girard Ave. Kensington 5432. Park 120.
Merchant & Evans Co.	2035 Washington Ave. Dickinson 60. Race 600.
Penn Metal Co., Ltd.	25th and Wharton Sts. Dickinson 4600. Race 1581.
Potts, Horace T., & Co.	316 N. 3rd St. Market 3902. Main 2950.
Potts, Wm. F., Son & Co., Inc.	1224 Cherry St. Spruce 4361. Race 3295.
Riter Bros. & Co.	1022 Race St. Filbert 2340. Race 1134.
Whitaker, Glessner Co.	1234 Hamilton St. Poplar 2617. Race 3994.

Mill Supplies.

American Textile Banding Co.,	Marshall and Hunting Park Ave.	Tioga 3593.
Bell, Harry E.	122 S. American St.	Lombard 3419.
Billington, Jas. H., Co.	113 Chestnut St.	Lombard 2070. Main 309.
Bond, Chas., Co.	617 Arch St.	Market 3990. Main 5115.
Botfield Supply Co.	Swanson and Clymer Sts.	Lombard 3488.
Collieries' Supply & Equipment Co.	14 N. 5th St.	Market 4280. Main 3300.
DeZouche-Hanson & Co.	14 N. 5th St.	Market 4280. Main 3300.
Fairbanks Co.	701 Arch St.	Market 2210. Main 1715.
Fidelity Mill Supply & Export Co.	312 Market St.	Lombard 531. Main 605.
Fifer & Beatty	Lehigh and Front St.	Kensington 1676-77. East 540-41.
Grau, Walter S.	514 Arch St.	Market 297.
Haines, E. W.	West End Trust Bldg.	Spruce 5479.
Industrial Products Co.	1001 Chestnut St.	Walnut 3435.
Latimer, Robt. L., & Co.	24 N. Front St.	Market 335. Main 2315.
Leatheroid Sales Co.	1024 Filbert St.	Filbert 4386. Race 2050.
Martin, Geo. T.	248 Chestnut St.	Lombard 4915.
Matusow Mill Supply Co.	1517 Germantown Ave.	Kensington 2591. Park 361.
Mill Specialties Co.	514 Arch St.	Market 297.
Miller, Hugh M., & Co.	Real Estate Trust Bldg.	Walnut 2631.
Mort Hardware Co.	4th and Girard Ave	Market 4430. Park 4818A.
Powell, Clouds & Co.	602 Arch St.	Market 2115. Main 377.
Sachs, Wm. A.	Germantown and Girard Aves.	Market 2157. Park 794-795.
Sees & Faber Co.	2008 N. Front St.	Kensington 5140. Park 754.
Shannon, J. Jacob	1744 Market St.	Spruce 1744. Race 1744.
Spaulding & Metcalf	532 Arch St.	Market 295. Main 349.
Standard Supply & Equipment Co.,	13th and Cherry Sts.	Locust 4150. Race 4220.
Steel Heddle Mfg. Co.	2110 W. Allegheny Ave.	Tioga 5680. Park 976.
Utility Supply Co.	329 N. 4th St.	Market 2060.
Walker Mfg. Co.	Ontario St. and Kensington Ave.	Frankford 933.
Webb, Edward J.	Drexel Bldg.	Lombard 530.
Whiteley, Edwin	214 W. Dauphin St.	Kensington 2047.

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Mill Work—Continued.

	Bell Phone.	Key. Phone.
Adams, Daniel		2940 Marshall St.
	Tioga 4706.	Park 519.
Alcott, W. K., & Co.		52nd and Lancaster Ave.
	Belmont 514.	West 234.
Allen, Ellwood, Lumber Co.,		Trenton Ave. and Ann St.
	Kensington 2767.	East 15.
Coolbaugh, C. C., & Son Co.		19th and Cambria Sts.
	Diamond 7157.	Park 98.
Dintenfass & Pittman		606 S. Water St.
	Lombard 4156.	Main 3037.
Felin, Chas. F., & Co., Inc.,		Old York Road ab. Butler St
	Tioga 3460.	North 1.
Gerry, Fredk. R., Co., The		1835 Market St.
	Dickinson 874.	Race 1166.
Gibson, Wm. E.		3527 Market St.
	Preston 2554.	West 113.
Hall Bros. & Wood		54th and Lancaster Ave.
	Belmont 3765.	
Haney-White Co.		21st and Glenwood Ave.
	Diamond 5359.	Park 523.
Hoffman Sash & Door Co.		1623 Vine St.
	Spruce 3915.	
Janney Lumber Co.		1147 Beach St.
	Kensington 990.	East 149.
Keely, S. S., & Sons		Main and Umbria Sts.
	Manayunk 5.	
Lloyd, Richard R., Co.		107 N. 22nd St.
	Locust 1191.	Race 2969.
Miles, Joseph		Belmont Ave.
	Manayunk 105.	
Parrott & Eshler		526 S. 8th St.
	Walnut 3018.	
Robinson, John, & Co.		49 Queen Lane
	Germantown 5780-81.	
Ross, J. Anderson, Co.		2917 N. Broad St.
	Tioga 4746.	Park 1145.
Rust, Harry R.		724 Ludlow St.
	Market 2876.	Main 3533.
Shaw, James		52nd and Woodland Ave.
	Woodland 872.	West 407 .
Smedley Bros. Co.		Church and Tacony Sts.
	Frankford 1120.	East 235.
Snedaker, Frank C., Co.		9th and Tioga Sts.
	Tioga 3810.	Park 203.
Swenk-Benson Co.		2305 Cherry St.
	Locust 999.	Race 157.
Tacony Lumber Co.		Cottman St., Tacony
	Tacony 256.	
Ternan & White		20th and Glenwood Ave.
	Diamond 326.	Park 1090.
Walrath, Martin H.		Park and Glenwood Aves.
	Tioga 3732.	Park 1362.
Watson & Robinson		49 Queen Lane
	Germantown 5780.	
Wilkins, F. W., & Co.		210 New St.
	Market 709.	Main 799.
Wilt, A., & Sons		723 N. Front St.
	Market 2709.	Park 445.
Williamsport Planing Mill Co.		403 Finance Bldg.

Mosaics.

(See Tile and Tile Work.)

Nails.

American Steel & Wire Co. .....Widener Bldg.
Walnut 5200. Race 1701.

Middleton Nail Works .....911 Callowhill St.
Filbert 3187. Race 17.

Tip Top Nail Co. .....1224 Washington Ave.
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Keystone Phones: Race 3520, Race 3521

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(See Cabinet Work.)

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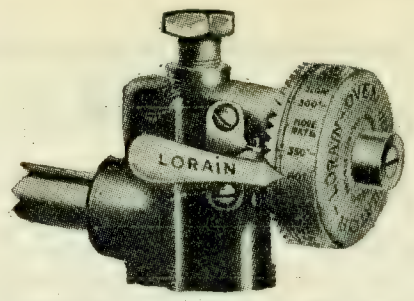
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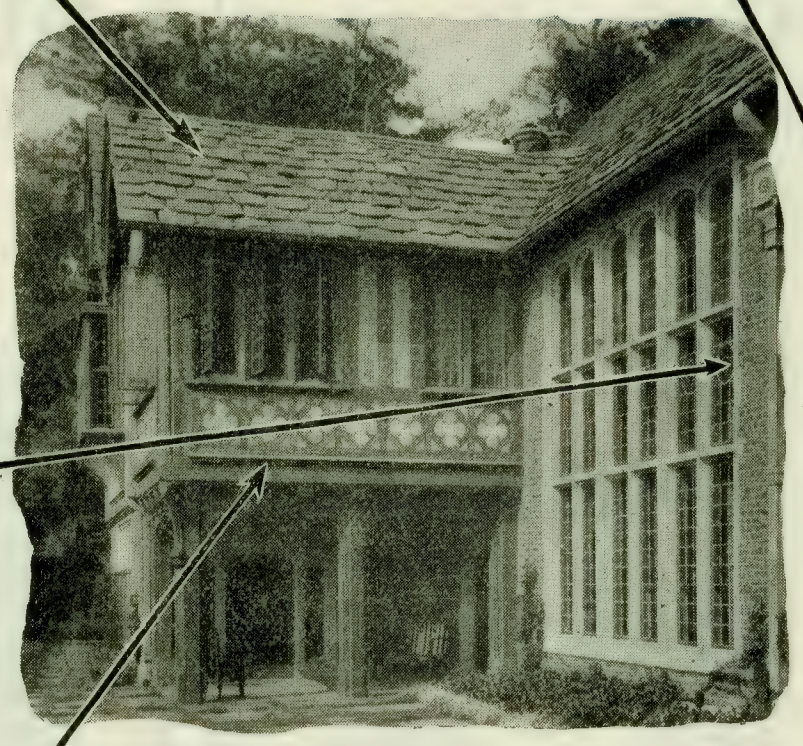
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Anchor Post Iron Works

J. S. SLACK, Manager
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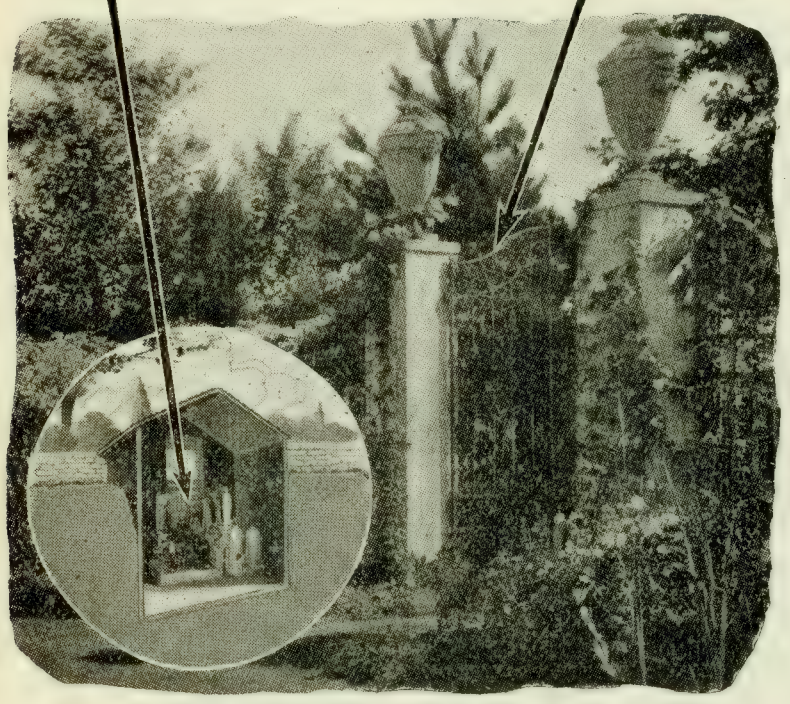
Plain and Decorative

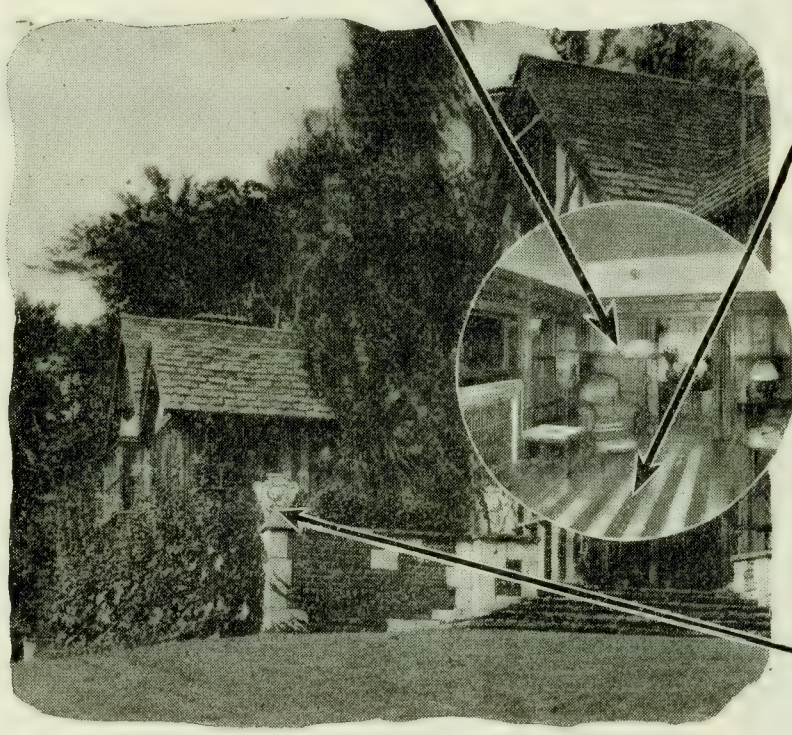
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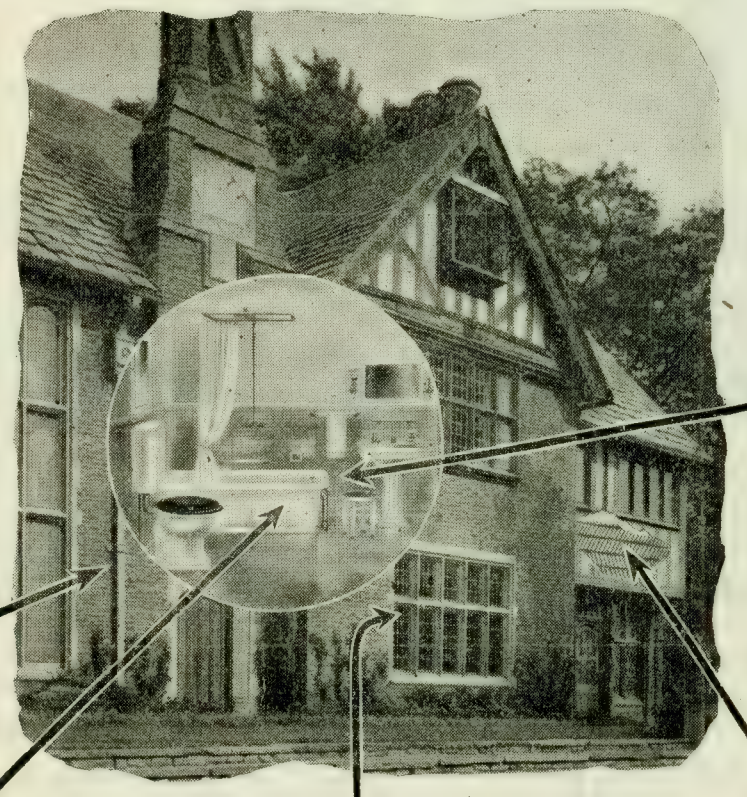
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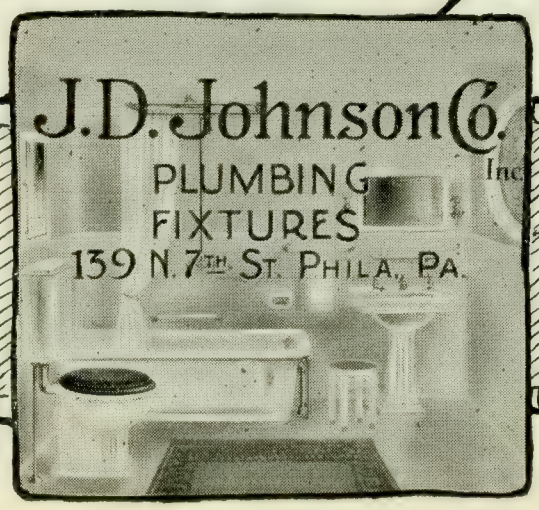


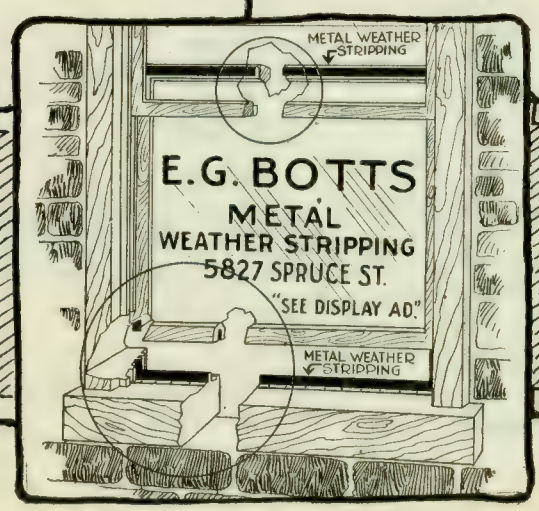


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Aukett, Warren W. ..... 2524 Brown St.	Poplar 4944.	
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Benner, John H. ..... 1731 Chestnut St.	Spruce 2806.	
Binns, Bertram L.. Gorgas and Germantown Ave.	Germantown 1521.	
Binns, Wm. C. ..... 1731 Chestnut St.	Spruce 2806.	
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Bonnin's, Louis W., Son ..... 268 S. 20th St.	Locust 2445.	
Boon, Thos. A. ..... 831 N. 15th St.	Poplar 4316.	
Boorse, John S. ..... 3550 N. 16th St.	Tioga 5167.	
Borkland, Albert E. ..... 12 S. 18th St.	Locust 3091.	
Borow, A., Co. ..... 1723 N. 31st St.	Diamond 4466.	
Bowes, P., & Son ..... 1503 Church St.	Frankford 1242.	
Boyd, Robt., & Son ..... 1640 Pine St.	Locust 6657.	
Boyle, Michael J. ..... 945 N. 66th St.	Belmont 5887.	
Breeding's, B. P., Son ..... 510 67th Ave.	Oak Lane 432.	

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Brewer, W. F. ..... 604 City Line	Oak Lane 1600.	
Brion, Seth R. ..... 14 N. Felton St.	Belmont 7090W.	
Brown, Philip ..... 1331 N. 10th St.	Poplar 5479.	
Brynildsen, Christian ..... 1744 S. Ringgold St.	Dickinson 6007.	
Buckley, Peter E. ..... 4001 Sansom St.	Baring 1409.	
Buckwalter Painting Co. ..... 249 S. 10th St.	Walnut 5497.	
Burr, W. H., & Son ..... 3922 Market St.	Preston 2600.	
Calhoun, Jos. F. ..... 2646 N. 9th St.	Diamond 476.	
Callie, J. M. ..... 844 S. Allison St.	Woodland 944.	
Carlile, Wm. B. ..... 37 S. 18th St.	Spruce 2448.	
Carrick, R. J. ..... 19th and Market Sts.	Spruce 4851. Race 625.	
Cassler, F. G. ..... 2057 Ridge Ave.	Poplar 5288. Park 5006A.	
Central Light & Paint Co. ..... 227 S. 10th St.	Walnut 1523.	
Chapman Decorative Co. ..... 1608 Walnut St.	Spruce 2550.	
Clark, M. H. ..... 5915 Addison St.	Belmont 3441.	
Colcord, Edward ..... 2124 N. 31st St.	Diamond 839.	
Councell, Charles H. 1632 W. .. Susquehanna Ave.	Diamond 4886W.	
Creticos, John, Co. ..... 307 N. 60th St.	Belmont 995W.	
Danehower, Elwood ..... 2526 N. 9th St.	Diamond 707.	
Defoney, Frank A. ..... 2352 N. 8th St.	Diamond 3530W.	
Denninger, A. ..... 419 Green St.	Market 2987.	
Deravin, Leon, & Son ..... 207 Stamper St.	Lombard 4185.	
DeRemer, R. J. ..... 733 S. 59th St.	Woodland 7139J.	
Derr, John H. ..... 2152 E. Susquehanna Ave.	Kensington 4814W.	
Detwiler, Frank ..... 1309 Columbia Ave.	Diamond 4612.	
Dick, Daniel D. ..... 1841 Ridge Ave.	Poplar 6363W.	
Dolley, W. G., Jr. ..... 619 S. 19th St.	Spruce 1315.	
Dounton, Frank ..... 1695 Meadow St.	Frankford 1791J.	
Dove, John ..... 417 Pine St.	Lombard 1668.	
Draeger, Frank W. ..... 20th and Poplar Sts.	Poplar 1365.	
Dugan, Wm. J. ..... 4750 N. Carlisle St.	Wyoming 4584.	
Ebinger, Chas. G. ..... 2038 Amber St.	Kensington 884.	
Edwards, S. J. ..... 4123 Market St.	Preston 3825.	
Ehinger, H. W., & Co. ..... 1237 Ridge Ave.	Poplar 4090.	
Erichson, Jas. S., Jr. ..... 1714 N. 11th St.	Diamond 4680.	
Erichson, M. Bright ..... 3105 N. 15th St.	Tioga 8564W.	
Evans, J. Harr y ..... 331 Reed St.	Lombard 3703.	
Falana, E. M., & Son ..... 334 N. 4th St.	Market 2959W.	
Fell, Geo. S. ..... 1419 W. Toronto St.	Tioga 5888.	
Fellman, Wm. ..... 711 N. 7th St.	Market 3514.	
Ferguson, Wm. ..... 711 S. 20th St.	Locust 2309.	
Filemyr & Paca ..... 1638 Dyre St.	Frankford 321.	
Fisher, Jas. J. ..... 8440 Norwood St.	Chestnut Hill 75.	
Fisher, Thos. P. ..... 829 E. Chelten Ave.	Germantown 2072.	
Fithian, Jos. M. ..... 5141 Master St	Belmont 7342.	

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Flounders, Thos. S. .....6110 W. Master St.
Belmont 4195.
Fonash, Theo. J. .....195 E. Evergreen St.
Chestnut Hill 49.
Foster, Edgar H. .....1920 Fitzwater St.
Locust 2123.
Gallagher, John F. .....308 Roxborough St.
Roxboro 104.
Gerber, Frederick .....15th and Thompson Sts.
Poplar 1765. Park 650.
Gersh & Weinman .....329 S. 3rd St.
Lombard 566.
Gette, Wm. F. .....1050 N. 42nd St.
Baring 8055.
Girard Painting & Decorating Co.,
20th and Poplar Sts.
Poplar 1365.
Glenn, Wm. .....4531 Leiper St.
Frankford 1901W.
Gold, Chas. .....1950 N. 31st St.
Diamond 903W.
Goldberg, David L. .....932 N. Franklin St.
Market 835.
Goldberg, Nathan .....855 N. 5th St.
Market 2016.
Goodrich, Wm. H. .....5038 N. 15th St.
Wyoming 1191.
Gotwals, J. E. .....2013 E. Clearfield St.
Kensington 4951.
Grant, George .....2047 Moravian St.
Locust 1802.
Grauer, Wm. K. .....1850 Frankford Ave.
Kensington 2992.
Griffey Decorative Co. .....206 S. 13th St.
Walnut 3275. Race 1493.
Gross, Harry .....331 S. 5th St.
Lombard 3593. Main 3020.
Gysi, Frank P. .....Real Estate Trust Bldg.
Walnut 3719.
Hallman, J. B. .....1012 W. Lehigh Ave.
Diamond 67.
Hartman, Henry A. .....2516 Poplar St.
Poplar 1428.
Hazel, Wm. B. .....5310 Germantown Ave.
Germantown 3777.
Heisler, H. W., & Son .....1541 Race St.
Spruce 4245.
Helsinger & Co. .....892 N. 6th St.
Market 4337.
Hill, Geo. W. .....2307 Brown St.
Poplar 1362.
Hillegas, Geo. F., Jr. .....2512 Brown St.
Poplar 954.
Hillegass, Hugh F. .....871 N. 27th St.
Poplar 948.
Hirst, Albert F. .....24th and Turner Sts.
Poplar 2785.
Holstein, C. F. .....732 Poplar St.
Market 591.
Holstein, Harry .....732 Poplar St.
Market 591.
Hoober & Null Co. .....43 S. 17th St.
Spruce 3049.
Houck, Wm. R. .....264 S. 8th St.
Walnut 764.
Howe & Co. .....2054 Sansom St.
Locust 6537.
Humphrey, Thos. R. .....245 N. 11th St.
Walnut 6928.
Huston, H. H. .....5302 Larchwood Ave.
Belmont 7019.
Hynes, Edward J. .....1632 N. 13th St.
Poplar 1377.
Hawkins, Francis A. .....803 N. 46th St.
Preston 6364.
Jameson, John, & Son ....2581 E. Huntingdon St.
Kensington 456. East 33.
Johnson, R. A. .....815 N. 43rd St.
Preston 4920.
Johnson, Thos. .....1915 Callowhill St.
Spruce 384.
Jones, E. S. .....2514 N. 27th St.
Diamond 468.
Jones & Robinson .....4531 Springfield St.
Woodland 5808.
Kalberer, Wm. ..Trenton Ave. and Clearfield St.
Kensington 6694. East 156.
Kaplan, Benj. .....314 S. 60th St.
Belmont 5273.

Bell Phone. Key. Phone.

Kayser & Allman .....1522 Chestnut St.
Locust 552. Race 715-683.
Keith, Judson C. .....432 Walnut St.
Lombard 3678.
Kelly, Edwin .....245 N. 13th St.
Spruce 1780.
Kelly, Francis J. .....37 S. 18th St.
Spruce 2448.
Kelly, Frank X. .....1720 Vine St.
Locust 4952.
Keown, Robt. .....12th and Pine Sts.
Filbert 4759.
King, Frederick W., Co. .....1925 N. Broad St.
King, James .....242 S. 22nd St.
Locust 286.
Kleiman, Abe .....6th and Venango Sts.
Tioga 3369.
Knatz, Albert E. .....736 S. 20th St.
Spruce 2543. Race 1376.
Koebert, Adam C. .....1847 E. Allegheny Ave.
Kensington 2155W.
Kooperman, Edw., & Sons..29th and Poplar Sts.
Poplar 188. Race 479.
Kuehnle, Albert C. .....17th and Vine Sts.
Spruce 5474-75. Race 2893.
Kulda, C. H. .....1618 N. 11th St.
Poplar 6139J.
Leahy, John .....1938 Sansom St.
Spruce 919.
Lee, Harry S. .....313 Walnut St.
Lombard 3251.
Libros, Isador .....933 N. 40th St.
Preston 6376.
Linton & Fowler .....605 N. 8th St.
Market 172. Main 1329.
Lipp, Jacob H., & Sons .....30 W. Haines St.
Germantown 1279.
McClellan, S. W. .....3707-09 Ludlow St.
Preston 2952.
McDonough, Thos. J. .....1517 Pine St.
Spruce 5248.
McMahon, Wm. J. .....2806 D St.
Kensington 570.
McNamara, James .....261 S 60th St.
Belmont 8026.
MacGregor, D. A., & Bro. ...1224 Chancellor St.
Filbert 4813. Race 2395.
MacKeel, John T. .....1702 W. York St.
Diamond 518.
Magee, J. H., Co. .....1803 N. Franklin St.
Diamond 6539.
Malone, A. J., & Son .....1404 N. 10th St.
Poplar 4507.
Mangino, Michael .....605 Fernon St.
Dickinson 5154.
Maslin, John .....5175 Columbia Ave.
Belmont 3394.
Mecleary, George B. .....2001 E. Birch St.
Kensington 2975.
Miller, Fred S. .....237 S. 12th St.
Walnut 7565.
Miller, Morris .....1118 N. Sloan St.
Preston 6536W.
Miller, S. .....517 S. 6th St.
Lombard 4882.
Mitchell, Robert .....901 S. Alden St.
Woodland 6918.
Moore, D. Edw. .....2307 N. 11th St.
Diamond 6929.
Morrison, J. D. .....5637 Lansdowne Ave.
Belmont 7116.
Mudd, Robert E. A., & Sons.....736 S. 51st St.
Woodland 2570.
Murphy, John J., & Co. .....1835 Ludlow St.
Spruce 4958. Race 342.
Murray, Harry N. .....1719 Venango St.
Tioga 4754.
National Painting & Decorating Co.735 Walnut St.
Walnut 5994.
Nessler, Julius C. ....2030 E. Susquehanna Ave.
Kensington 901.
Newhall, C. H., & Co. .....330 E. Chelten Ave.
Germantown 4808.
O'Connor, Alfred S. .....14 S. 16th St.
Ogden & McNabb .....5000 Baltimore Ave.
Woodland 2432.
Ortt, C. Harry .....2117 W. Ontario St.
Tioga 4649.

Bell Phone. Key. Phone.

Paessler, Ernest C. .....2810 N. 6th St.
Tioga 4427.
Park, Charles J. .....2439 W. Lehigh Ave.
Diamond 8444W.
Perry, Joseph C. .....268 S. 20th St.
Locust 2445.
Patten, Frank S. .....867 N. 44th St.
Belmont 1243.
Peck, Gershon .....1236 S. 5th St.
Locust 2652.
Peck, Wm. L. .....1204 S. Ruby St.
Woodland 7617.
Penna. Painting Co. .....454 N. 8th St.
Market 291.
Pennington, Chas. W., & Sons..2005 S. Juniper St.
Dickinson 2677.
Peppelman, George M. .....1601 S. 2nd St.
Dickinson 1556.
Perry, Felix .....8438 Germantown Ave.
Chestnut Hill 106.
Phila. House Remodeling Co.....5931 Spruce St.
Belmont 8656.
Phila. Iron Structure Painting Co.,
317 Spruce St.
Lombard 3345. Main 2726.
Phila. Painting Cont. Co.....255 S. 6th St.
Lombard 4318.
Podell, B. .....328 Gerritt St.
Dickinson 200W.
Porter, Henry C. .....8047 Frankford Ave.
Holmesburg 381.
Potteiger, Lloyd A. .....1829 Filbert St.
Locust 3016.
Powell, Abraham .....345 Jackson St.
Dickinson 6682.
Powell & Wexler .....8022 Eastwick St.
Woodland 5113.
Powelson, E. S. .....1638 N. 11th St.
Poplar 3175.
Price, Oliver C., & Son.....3929 Lancaster Ave.
Preston 2660.
Price, Wm. H., Co. .....209-11 S. 10th St.
Walnut 649. Main 5904D.
Pyne, Jeremiah .....428 S. 20th St.
Rau, Henry S. .....1416 N. 12th St.
Poplar 2057.
Ritchie, Chester W. .....1643 Edgeley St.
Diamond 787.
Rogers, H. V., & Son.....4352 Griscom St.
Frankford 292.
Roth, Harry B., & Sons.....601 Callowhill St.
Market 1589. Main 2016.
Rudolph, Morris .....1702 S. 6th St.
Dickinson 5591.
Rudolph, S. W. .....12 S. 40th St.
Preston 2414.
Russell, D. & J. .....37 S. 18th St.
Spruce 2448.
Salkind, David, & Co. .....317 Spruce St.
Lombard 3345. Main 2726.
Saylor, J. H. .....3604 Lancaster Ave.
Preston 3720.
Schairer, Edmund .....2927 N. 22nd St.
Diamond 1899. Park 4514D.
Schow, B. M. .....629 N. 20th St.
Poplar 7642W.
Scott, Chas. W. .....5125 Baltimore Ave.
Woodland 67.
Seib, Harry W. .....10 S. 18th St.
Locust 1350.
Shull, Harry .....432 Walnut St.
Lombard 3678.
Siler, Joseph V. .....1938 E. Allegheny Ave.
Kensington 1343.
Silver, Joe .....123 Green St.
Market 1154.
Sima, Frank, & Son.....834 N. Randolph St.
Market 1819.
Sklar, Joseph .....432 S. 60th St.
Belmont 6420.
Sklar, Samuel .....5848 Market St.
Belmont 2687.
Smith, Fred W. .....2084 E. Allegheny Ave.
Kensington 1079.
Soliday, T. K., & Co. .....Fuller Bldg.
Spruce 5293.
Southern, Wm. B., Co. .....12th and Spruce Sts.
Walnut 135.
Spitz, John E. .....243 N. 11th St.
Walnut 6595.

Painters—Continued.

	Bell Phone.	Key. Phone.
Stackhouse, H., & Co.	Market 4074.	162 N. 4th St.
Staudenmayer, Theo. A.	Diamond 5625.	27th and Harold Sts.
Stomer, Andrew C.	Diamond 6090.	2354 N. 20th St.
Strover, H. W., & Son	Germantown 1909.	14 Harvey St.
Stuart, W. Henry	Spruce 1780.	245 N. 13th St.
Taylor, R. A.	Wyoming 2694.	5223 N. 5th St.
Thayer, John	Diamond 670.	1724 N. 3rd St.
Thouard, Joseph A.	Walnut 1523.	227 S. 10th St.
Townsend, John S.	Walnut 3719.	Real Estate Trust Bldg.
Trier, Alex.	Dickinson 621W.	2637 S. Sheridan St.
Trimpol, Abe W.	Lombard 2201.	422 S. 4th St.
Triol, George O.	Diamond 6062.	2321 Columbia Ave.
Van Sciver, Ellwood	Tioga 2522.	3342 Germantown Ave.
Wagner, Louis	Germantown 3777.	2625 W. Somerset St.
West, Jacob M.	Diamond 7967.	5310 Germantown Ave.
West Phila. Decorating Co.	Belmont 7407.	104 N. 60th St.
White, Edw. H.	Belmont 7816.	5326 Market St.
Wieland, Wm. B.	Market 2170.	254 N. 3rd St.
Wilson, A. G.	Belmont 8145.	1501 N. 62nd St.
Wilson, F. P. T.	Preston 3935.	106 S. 40th St.
Wilson, James S., & Son, Inc.	Market 1770-71. Main 4217-18.	44 N. 7th St.
Winder, Chas. V. P.	Chestnut Hill 2064.	26 E. Mt. Airy Ave.
Woolslager, John F.	Market 1185.	993 N. Randolph St.
Worrell, Lewis R.	Chestnut Hill 42.	90 Bethlehem Pike
Wright, Samuel	Woodland 1334.	6146 Washington Ave.
Wylie, Albert	Preston 3170.	3739 Lancaster Ave.
Wynn, Howard	Poplar 922.	1621 N. 12th St.
Yerkes, Lewis A.	Filbert 4759.	12th and Pine Sts.
Yungmann, E. W.	Frankford 1202W.	3603 Frankford Ave.
Zankel, Frank, & Son	Frankford 2723W.	5813 Hegerman St.
Zipkin, Max	Preston 5976J.	3973 Wyalusing Ave.

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J. J. Murphy Co.

1835 Ludlow St., Phila., Pa.

Spruce 4958 Race 342

Paints and Varnishes---Manufacturers and Dealers

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FOR ALL INSIDE SURFACES

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4. Can be applied with either spraying machine or brush.
5. Does not lap.

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Warehouse

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Phila., Pa.

	Bell Phone.	Key. Phone.
Amalgamated Paint Co.	Lombard 1828.	614 Drexel Bldg.
American Insulation Co.	Tioga 8700. Park 335.	Roberts and Stokley Sts.
American Bitumastic Enamels Co.,	Lombard 2640.	322 S. Delaware Ave.
American Chemical Paint Co.	Dickinson 1430.	1126 S. 11th St.
American Marine Paint Co.	Lombard 3399.	Bourse Bldg.
Asam Bros., Inc.	Walnut 5460. Race 3140.	919 Arch St.
Atlantic Drier & Varnish Co.,	Dickinson 1526. Main 2665.	Meadow and Wolf Sts.
Bean, Lewis U., & Co.	Filbert 5506.	922 Cherry St.
Berry Bros., Inc.	Market 1187. Main 1898.	331 N. 4th St.
Binswanger, B., & Co., Inc.	Market 4525. Park 1730.	829 N. 3rd St.
Bridgeport Wood Finishing Works,	Dickinson 50.	35th and Gray's Ferry Road
Brooklyn Varnish Mfg. Co.	Market 2726.	264 N. 4th St.
Brouse, C. M.	Kensington 760.	1400 Frankford Ave.
Buten, M.	Spruce 3182. Race 5762A.	1834 South St.
Celluloid Zapon Co.	Spruce 6020.	140 N. Broad St.
Certain-Teed Products Corp.	Spruce 4531.	New Stock Ex. Bldg.
Clermont Specialty Co.	Poplar 6707.	1205 N. 19th St.
Continental Paint & Mfg. Co.	Market 3582.	18 S. 7th St.
Coyne Bros. Varnish Co.	Kensington 3923. Park 4794A.	2nd and Pike Sts.
Concrete Waterproof Paint Co.	Market 4525. Park 1730.	829 N. 3rd St.
Denny, Hillborn & Rosenbach	Locust 4240. Race 830.	230 N. 12th St.
Detroit Graphite Co.	Spruce 5178. Race 1937.	Land Title Bldg.
Dixon, Joseph, Crucible Co.	Locust 2671. Race 394.	Finance Bldg.
Dowdy Bros.	Lombard 1842.	304 Lafayette Bldg.
DuPont, De Nemours, E. I., & Co.,	Dickinson 50.	35th and Gray's Ferry Road
Dwier, Daniel, Jr., & Sons,	Kensington 4181.	1028 E. Susquehanna Ave.
Elastic Compount Paint Co.	Belmont 2070.	5131 Kershaw St.
Fasdura Co.	Manayunk 1189.	4725 Ridge Ave.
Fauser & Mauer	Poplar 4386. Park 4631A.	2630 Columbia Ave.
Federal Composition & Paint Co.	Lombard 4182.	120 Walnut St.
Felton, Sibley & Co., Inc.	Market 3860. Main 4276.	136 N. 4th St.
Flexible Compound Co., Inc.	Preston 4807.	3607 Haverford Ave.
French, Samuel H., & Co.	Market 1924. Main 1221.	4th and Callowhill Sts.
Gillingham, Chas. A.	Dickinson 308. Race 3060.	12th and Morris Sts.
Gillingham, Chas. A.	Belmont 8522.	250 S. 60th St.
Graves, N. Z., Inc.	Lombard 1475. Main 1295.	400 Chestnut St.
Harrison Works,	Dickinson 50.	35th and Gray's Ferry Road
Howell, Chas. H. & Co., Inc.	Market 735. Main 1615.	212 Race St.
Imperial Paint Co.	Spruce 5264. Race 407.	1518 Sansom St.
Impervious Paint & Varnish Co.	Market 4176. Main 1079.	107 N. 2nd St.
International Compositions Co.	Spruce 3995.	Finance Bldg.

Have you read the Builders Guide this week

PAINTS and VARNISHES

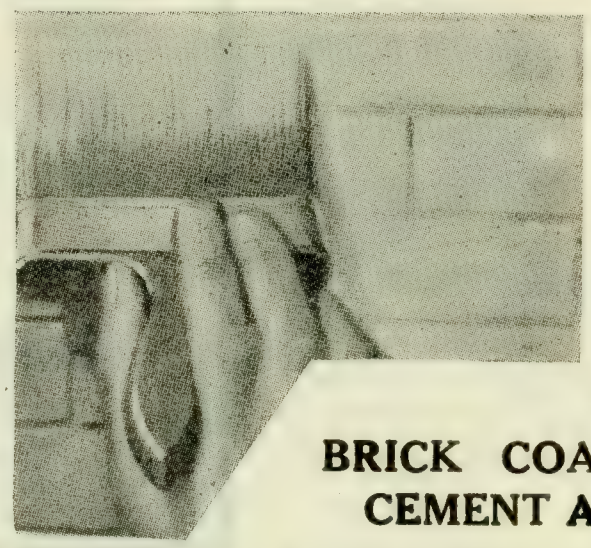
Manufacturers and Dealers---Continued

IMPACO



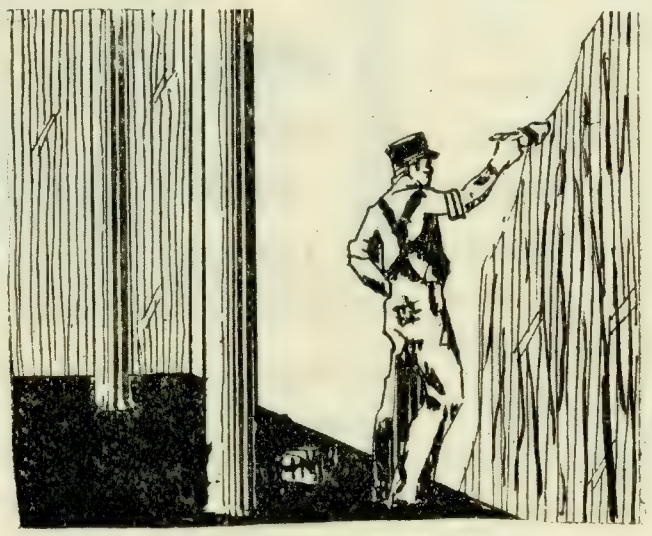
FURRING COMPOUND

Impaco Damp Resisting Paint provides perfect insulation between brick wall and plaster coat. Permanent, pliable, elastic, damp and waterproof, it forms a perfect bond that enables the builder to do away with time consuming, expensive, furring and lathing.



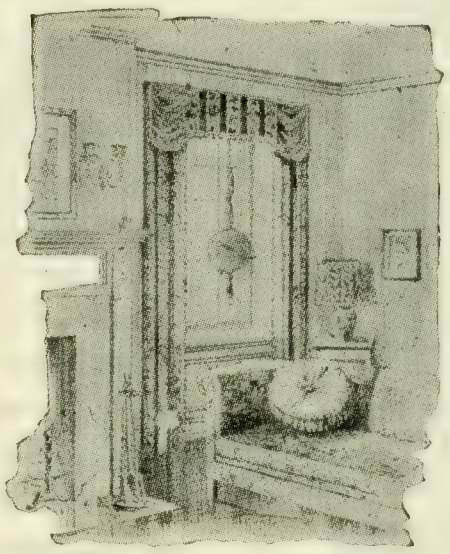
BRICK COATING CEMENT AND

Impaco Cement Coating produces varied attractive color effects. It replaces the cheerless and unattractive appearance of a cement surface with a flat, soft toned artistic appearance. It is waterproof and is unaffected by the alkalies in cement and brick, which destroy oil paints. Impaco Cement Coating in cement floors produces a hard durable surface that will not clip or peel off.



MILL WHITE

Impaco Mill White is scientific Mill White. *Impaco* reflects every atom of daylight that enters a building—reflects without glare—and provides better illumination for every part of the room.



FLAT FINISH

The *Impaco* line of durable, attractive oil paints for interiors provides a selection for any kind of interior painting work. The color card of Flat Finishes will indicate the possibilities of artistic treatment of walls and ceilings with *Impaco* Paints.

IMPERIAL PAINT COMPANY

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SPRUCE 5264 RACE 407

Paints and Varnishes (Manufacturers and Dealers)—Continued.

Bell Phone.	Key. Phone.
Keystone Albumen & Paint Co.,	1346 N. Marston St.
Poplar 2300.	Park 5383D.
Keystone Varnish Co.	6047 Market St.
Belmont 691.	West 4324D.
Lawrence-McFadden Co.	1400 Frankford Ave.
Kensington 960.	East 189.
Lewis, John T., & Bros. Co.	Lafayette Bldg.
Lombard 3900.	Main 4730.
Lucas, John, & Co.	322 Race St.
Market 448.	Main 1365.
McCloskey, John A.	424 N. Orianna St.
Market 1718.	
McCloskey Varnish Co.	30th and Locust Sts.
Preston 2545.	West 91.
Macher, Wm., & Son	1533 Clearfield St.
Park 4444A.	
Maxwell Paint Co.	1329 Arch St.
Locust 4079.	
Monroe, Lederer & Tussig.	1513 Germant'n Ave.
Kensington 6933.	Park 1114.
Moore, Benj., & Co.	315 Market St.
Market 3931.	
Nice, Eugene E.	268 S. 2nd St.
Lombard 1877.	Main 4577-78.
Oeters, John C.	1242 N. 31st St.
Poplar 2133.	Race 2545.
Patton Paint Co.	Drexel Bldg.
Lombard 3693.	
Pecora Paint Co.	4th and Sedgley Ave.
Kensington 6421.	Park 760.
Pelstring, J. Russel	11th and Fitzwater Sts.
Walnut 4513.	
Phila. Building Material Co.	Widener Bldg.
Walnut 5770.	
Phoenix Paint & Varnish Co.	124 Market St.
Lombard 560.	Main 915.
Pitcairn Varnish Co.	Drexel Bldg.
Lombard 3693.	
Pittsburgh Plate Glass Co.	11th and Arch Sts.
Filbert 5221.	Race 1395.
Pratt & Lambert, Inc.	49 W. Johnson St.
Germantown 5574.	
Protectus Paint Co.	North American Bldg.
Filbert 4870.	
Puritan Oil & Paint Co.	612 Arch St.
Market 2166.	
Pyramid Paint Co.	131 N. 22nd St.
Spruce 3827.	Race 2913.
Rambo, Theo. G.	981 N. 2nd St.
Market 2323.	Park 4909A.
Rickards, S. R., Co.	308 Walnut St.
Lombard 1959.	Main 4339A.
Rinald Bros.	1142 N. Hancock St.
Market 469.	Park 4448D.
Schrack, C., & Co.	152 N. 4th St.
Market 3975.	Main 321.
Sherry, Frank	2054 South St.
Spruce 4920.	
Sherwin-Williams Co., The,	Delaware Ave and Chestnut St.
Lombard 4584.	Main 160.
Sipe, James B., & Co.	Real Estate Trust Bldg.
Walnut 1324.	
Smyth Bros.	3649 Market St.
Baring 1392.	West 4486D.
Southern Chemical Co.	219 Arch St.
Market 2131.	
Spruance, Gilbert Co.	312 N. 3rd St.
Market 3179.	Main 2963.
Standard Varnish Works	264 S. 8th St.
Walnut 764.	
Steelman & Archer, Inc.	16 S. Front St.
Lombard 1742.	Main 654.
Sun Chemical Co.	219 Arch St.
Market 2131.	
Thomson Wood Finishing Co.	829 N. 3rd St.
Market 4525.	Park 1730.
Trainer, Walter L., Co.	3328 Germantown Ave.
Tioga 2347.	Park 218.
Tropical Paint & Oil Co.	612 Arch St.
Market 2166.	
Trus-Con Laboratories	1611 Sansom St.
Spruce 636.	Race 3998.
Turpsene Mfg. Co.	315 Market St.
Market 3931.	
United Products Corp. of America,	Stock Exchange Bldg.
Locust 2410.	
United States Gutta Percha Paint Co.,	13 S. 13th St.
Walnut 153.	
Watrous Varnish Co.	20th and Tasker Sts.
Dickinson 460.	
Wetherill, Geo. D., & Co., Inc.	114 N. Front St.
Market 506.	Main 555.
Wetherill & Bro.	126 S. 30th St.
Preston 2501.	West 135.
Wocher, H. M., & Son Co.	1222 W. College Ave.
Poplar 4649.	Race 5931D.
Yarnall Paint Co.	1026 Race St.
Filbert 2320.	Race 2923.

Paving.

(See Cement and Concrete Work.)

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East 192

Bell Phone.	Key. Phone.
American Casting Co.	Widener Bldg.
Walnut 4226.	
American Pipe & Supply Co.	1514 S. 9th St.
Dickinson 3616.	Main 306.
American Tin & Terne Plate Co.,	24th and Vine Sts.
Locust 165.	Race 2171.
Belfield, H., Co.	435 N. Broad St.
Poplar 2264.	Race 2275.
Bridgman Bros. Co.	131 S. 31st St.
Preston 5800.	West 700.
Central Tube Co.	Morris Bldg.
Spruce 4144.	Race 1412.
Crane Co.	245 Master St.
Kensington 5450.	Park 960.
Dougherty, M. J., Co.	North American Bldg.
Walnut 1823.	Race 1680.
Fleck Bros.	50 N. 5th St.
Market 1655.	Main 2630.
Ford & Kendig Co.	1428 Callowhill St.
Spruce 5310.	Race 5030.
Goldberg, H.,	1420 S. 8th St.
Dickinson 374.	Main 3895.
Griffith, James F.	420 E. Moyer St.
Kensington 5974.	East 192.
Haines, Jones & Cadbury Co.	1136 Ridge Ave.
Poplar 502.	Race 502.
Keystone Supply & Mfg. Co.	927 N. 9th St.
Market 4135.	Park 1120.
Koons, E. W., & Co.	911 Filbert St.
Filbert 2813.	Race 1831.
McArdle & Cooney	519 Arch St.
Market 962.	Main 2970.
McDowell, Small, McKibben Co.	723 Richmond St.
Kensington 6664.	East 344.
Maneely, John	309 Arch St.
Market 727.	Main 2175.
Mitchell, W. K., & Co., Inc.	2940 Ellsworth St.
Dickinson 731.	Race 1393.
National Tube Co.	Widener Bldg.
Walnut 5200.	Race 1701.
Pancoast, Henry B., Co.	950 N. Front St.
Market 2811.	Park 1573.

Pipe and Pipe Fittings—Continued.

Bell Phone.	Key. Phone.
Perkes, Chas., Co.	627 Arch St.
Market 2780.	Main 795.
Phila. Pipe Supply Co.	1003 N. 7th St.
Market 356.	Park 191.
Rainear, C. J., & Co.	518 Arch St.
Market 319.	Main 3994.
U. S. Cast Iron Pipe & Foundry Co.	Morris Bldg.
Spruce 1000.	
Walworth Mfg. Co.	241 Arch St.
Market 2055.	Main 408.
Wood, R. D., & Co.	400 Chestnut St.
Lombard 1020.	Main 1680.

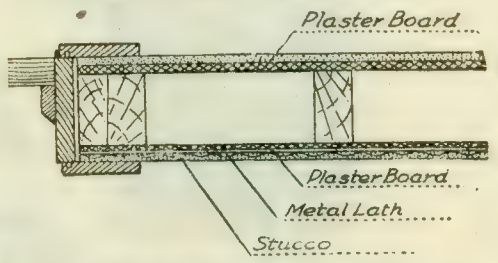
Pipe Coverings.

(See Boiler and Pipe Coverings.)

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American Insulation Co.	Roberts and Stokley Sts.
Tioga 8700.	Park 335.
Fairlamb, P. H., & Co.	115 S. 30th St.
Preston 4537.	West 184.
Felin, Chas. F., & Co., Inc.,	York Road and Butler St.
Tioga 3460.	North 1.
King, J. B., Co.	Builders' Exchange
Market 3848.	Main 2932.
Knickerbocker Lime Co.,	Finance Bldg. (Wholesale Sales.)
Spruce 2913.	Race 1512.
Knickerbocker Lime Co.,	24th and Callowhill Sts.
Locust 200.	Race 500.
Newton Supply Co.	30th and Chestnut Sts.
Preston 2343.	West 543.
Pearce Fireproof Co.	1345 Arch St.
Locust 3924.	Race 4434.
Strathmann, Henry E.	260 S. Bonaffon St.
Woodland 6611W.	
Tague, James E., Co.	10th and Columbia Ave.
Diamond 5030.	Park 1010.
U. S. Gypsum Co.	Witherspoon Bldg.
Walnut 223.	

PLASTER WORK
PLAIN AND ORNAMENTAL

John L. Connor

PLAIN AND ORNAMENTAL PLASTERING

STEEL FURRING AND LATHING

ESTIMATES FURNISHED

CLIFTON HEIGHTS
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1345 ARCH STREET
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PLASTER WORK

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PLASTERERS

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Ability to create and furnish beautiful original ideas makes our work of extraordinary interest to the architect.

Ability to execute the ideas of the architect enables us to be of invaluable assistance.

Voigt Company

1743-47 N. 12th St., Philadelphia

Bell Phone Diamond 470

Bell Phone.	Key. Phone.
Allen, James T., & Son	510 N. 8th St. Market 3370.
Amberg, Frank X.	2613 W. York St. Diamond 7345.
Anderson, Wm.	1730 S. Broad St. Dickinson 2575.
Armstrong, Wm., & Sons,	Phil-Ellena and Chew Sts. Germantown 6150.
Babcock, James H.	18 S. 7th St. Market 4548. Main 6685.
Bell, Walter Scott	1627 Sansom St. Spruce 3703.
Boulden, C. C.	422 N. 63rd St. Belmont 3867.
Boyd, Hugh, & Son	704 S. 11th St. Filbert 2143.
Buvinger, A. G.	911 N. 16th St Poplar 4089.
Cavalieri, Frank A.	402 N. Simpson St. Belmont 5915.
Chandler, Harry W.	710 Ranstead St. Market 1412.
Colebaugh, R. P.	1519 Arrott St. Frankford 391R.
Connor, John L.	1345 Arch St. Spruce 1769.
Conroy Bros., Inc.	Shubert Bldg. Spruce 3870.
Dickerson, A.	2125 Montrose St.
Dinella, Anthony	241 N. Avondale St. Belmont 8370J.
Farraday, Charles	1505 N. 23rd St. Poplar 5915.
Florentine Art Plaster Co.	2210 Chestnut St. Locust 418.
Fox, Wm. H.	539 N. 22nd St. Poplar 511.
Foy, Joseph M.	704 S. 11th St. Filbert 2143.
Friel, E. B., Co., Inc.	2146 E. Norris St. Kensington 5747.
Hannum, C. H.	1217 Ridge Ave. Poplar 581.
Hazlett, William	2006 Naudain St. Locust 2742. Race 409.
Hoffman, C. F.	1436 N. 60th St. Belmont 7209J.
Humphreys, John C., & Son	1233 St. James St. Walnut 838. Race 863.
Kelly, James J.	1745 Tilghman St. Kensington 1489.
Kensill, Wm. H., & Son	518 E. Thompson St. Kensington 731.
Loper, L. D.	5411 Wyalusing Ave. Belmont 4824.
McKeeman, John, & Sons	1488 N. 53rd St. Belmont 281.
MacCorkell, John	228 N. 50th St. Belmont 5950W.
Manno, Nicholas	411 N. 64th St. Belmont 5755W.
Miller, Alfred J., Jr.	6th and Venango Sts. Tioga 5938.
Mooney, James J.	2106 S. 57th St. Woodland 2234.
Mulvaney, Harold	1407 S. 29th St. Dickinson 2439W. Race 5906A.
Reeves, J. W. & C. H.	925 Darien St. Market 1825. Park 19.
Shaffer, Morris W.	1721 N. 10th St. Diamond 4856.
Shaw & Co.	864 N. Franklin St. Market 622. Park 5024D.
Sterner, Wm. H.	2911 W. Dauphin St. Diamond 1999.
Sumption, J. D.	227 N. 65th St. Belmont 1203.
Trego, S. C.	5102 Pentridge St. Woodland 4544.
Venzie, F. M., & Co.	2610 W. Huntingdon St. Diamond 209. Park 1478.
Voigt, Co.	1745 N. 12th St. Diamond 470.
Wood, E. J., & Co.	1910 Brandywine St. Poplar 1689.

Plaster Block.

Bell Phone. Key. Phone.

Fairlamb, P. H., & Co. .....115 S. 30th St.
Preston 4537. West 184.
Keystone Fireproofing Co..North American Bldg.
Walnut 5545.
King, J. B., Co. .....Builders' Exchange
Market 3848. Main 2932.
Knickerbocker Lime Co.,
Finance Bldg. (Wholesale Sales.)
Spruce 2913. Race 1512.
Knickerbocker Lime Co.,
24th and Callowhill Sts.
Locust 200. Race 500.
U. S. Gypsum Co. .....133 S. 12th St.
Walnut 223.

Plumbers.

Adams, John J. .....225 Wakeling St.
Frankford 1902W.
Alexander, Wm. A. C. .....911 S. 59th St.
Woodland 715.
Alexander, Wm. H. .....5553 Spruce St.
Belmont 3449.
Allen, Geo. C. .....3368 Diamond St.
Kensington 3964.
Allen & Dougherty .....859 N. 12th St.
Poplar 453.
Allston, Charles V. .....621 N. 20th St.
Poplar 1408.
Anderson, W. M. .....600 Schuylkill Ave.
Locust 1441. Race 897.
Angelo, Michael .....1934 S. 19th St.
Dickinson 1746W.
Applegren, Chas. .....217 E. Westmoreland St.
Kensington 5758.
Armbrust & McGurk .....1936 Christian St.
Dickinson 1034. Race 3066.
Armstrong, George W. .....Limekiln Pike
Oak Lane 715.
Armstrong, John .....6021 Germantown Ave.
Germantown 2213.
Asquith, H. C. .....Reese and Hunting Park
Tioga 7274.
Atkinson, George M. .....4055 Market St.
Preston 5555.
Baker, Howard K. .....4031 Lancaster Ave.
Preston 3815. West 4743A.
Balls, Frank A. .....1422 Snyder Ave.
Dickinson 672.
Bamford, Herman .....3513 Longshore St.
Tacony 109.
Barclay, Alexander M. .....113 N. 6th St.
Market 1835. Main 5667A.
Barger, John J. .....2518 Columbia Ave.
Poplar 976.
Barnes, Samuel W., & Son.....2104 N. 6th St.
Diamond 7689. Park 397.
Barry, Thos. J. .....315 S. 20th St.
Locust 132.
Baxter Bros. .....304 S. 4th St.
Lombard 2996.
Beahm, Wm. H. .....4827 N. 15th St.
Wyoming 1381.
Beatty, Wm. J. .....600 Germantown Ave.
Germantown 396.
Beck, Fredk. J. .....814 N. 28th St.
Poplar 1131.
Beldner, Harry .....219 Poplar St.
Market 3690W.
Bellwoar, Joseph A. .....1642 Ludlow St.
Spruce 2521.
Belsito, C. J. .....248 W. Tioga St.
Kensington 1368.
Bendell, Wm. .....140 S. 4th St.
Lombard 2327.
Bennett, Joseph H. .....5543 Morris St.
Germantown 2440.
Betz, Berthold E. .....804 N. 24th St.
Poplar 5471.
Bieling, C. .....3218 Frankford Ave.
Kensington 4987.
Biggans, Edw. P. .....25th and Sterner Sts.
Diamond 7580.
Bisbing, Chas. A. .....2530 Montgomery Ave.
Diamond 4609.
Bittner, Alfred .....1216 N. 5th St.
Kensington 2972.

PLUMBERS---Continued

Bell Phone. Key. Phone.

Blackburn, Harry .....2 S. 42nd St.
Preston 5581.
Block, A. L. .....1902 S. 4th St.
Dickinson 6116J.
Blumenthal, Bernard .....839 E. Allegheny Ave.
Kensington 285W.
Boal, Wm. .....8133-35 Frankford Ave.
Holmesburg 268-353R.
Boon & Sample .....1708 Arch St.
Locust 1183.
Boorse, A. L. .....9419 Bustleton
Bustleton 14.
Borden, John, & Bro. .....637 N. 19th St.
Poplar 2491.
Borie, Joseph S., Est. of.....1009 Spruce St.
Filbert 3919.
Boyle, James J. .....3309 Chestnut St.
Baring 910.
Boyle, Thomas F. .....2619 Frankford Ave.
Kensington 5327.
Bradley, M. J. .....318 S. 52nd St.
Belmont 2996W.
Braker, George E. .....242 N. 16th St.
Spruce 5156.
Brennan, James H. .....155 N. 10th St.
Filbert 2481.
Brennan, Thos. .....8139 Germantown Ave.
Chestnut Hill 1489.
Britton & Witham .....127 E. Chelten Ave.
Germantown 133. North 4365A.
Broadway Plumbing Co.,
17th and Moyamensing Ave.
Dickinson 4529.
Brown, Joseph A. .....9th and Lehigh Ave.
Diamond 1555.
Brown, P. J. .....8234 Norwood St.
Chestnut Hill 1159.
Bryan, M., & Son .....919 N. 7th St.
Market 2758W.
Buehl, Harry .....3623 Germantown Ave.
Tioga 6965.
Bugger, Jacob .....2124 E. Cumberland St.
Kensington 756. East 4280A.
Bulman Bros. .....5th and Cumberland Sts.
Kensington 6613. Park 237.
Bunn, George L. .....1740 N. 27th St.
Diamond 4774.
Burgess, James A. .....4225 Main St.
Manayunk 1757J.
Burlingame, George R. ....3524 Haverford Ave.
Preston 5274.
Burns, David R., & Son .....752 N. 19th St.
Poplar 3768.
Buzby, Wm. R., & Son.....5324 Rising Sun Ave.
Wyoming 366.
Byrne's, John J., Sons.....37 N. 10th St.
Filbert 2803.
Calhoun, Wm. .....1214 Summer St.
Locust 1323.
Callahan, James E. .....1314 N. 52nd St.
Belmont 3940.
Capizzi, Joseph .....1500 S. 10th St.
Dickinson 5772.
Carber, John G. .....1036 W. Girard Ave.
Poplar 1287.
Carson, Andrew, & Son .....283 S. 5th St.
Lombard 1460.
Casselmann, Charles G. .....3634 Emerald St.
Frankford 2367J.
Catsiff, Ephraim .....1002 N. 7th St.
Market 3296.
Central Plumbing & Heating Co.....5744 Pine St.
Woodland 6984.
Chesney, Gustave .....2079 E. Cambria St.
Kensington 5350W.
Childs, George W., Jr. .....2531 W. Lehigh Ave.
Diamond 8015.
Clair & Harkness .....127 Walnut St.
Lombard 4079.
Clark Bros. .....1228 Locust St.
Filbert 4228.
Clark, Edw. S. .....248 S. 12th St.
Walnut 1998.
Clark, Rollan D. .....10th and Pine Sts.
Filbert 3183. Main 2358.
Clark, Samuel .....4345 Frankford Ave
Frankford 1389.
Clark, Thomas D. .....10th and Pine Sts.
Filbert 3183. Main 2358.
Claubs & Engel .....1302 Jefferson St.
Poplar 1977.
Cleary, J. P., & Sons.....2625 Kensington Ave.
Kensington 2453. East 4341A.
Clegg, Harry B. .....1605 Frankford Ave.
Kensington 2317.
Clifton, Arthur J. .....4252 Frankford Ave.
Frankford 872.
Coleman, John J. .....4533 Wayne Ave.
Wyoming 4286.
Collier, C. A., & Son....21st and Fairmount Ave.
Poplar 3946.

Bell Phone. Key. Phone.

Conard, Frederick D. .....2222 Snyder Ave.
Dickinson 1893.
Connolly, N. .....1905 Ridge Ave.
Poplar 4878. Park 448.
Coom, Thos. S. .....3503 N. 15th St.
Tioga 7582J.
Copperman, Ben. .....936 S. 3rd St
Lombard 2239.
Copperman, Harry B. .....611 S. 6th St.
Main 3167.
Cornell, W. G., Co. .....Colonial Trust Bldg.
Locust 5657. Race 2926.
Corvin, Howard .....1429 Brown St.
Poplar 3169. Race 5558A.
Coulston, Wesley .....Darien and Cambria Sts.
Tioga 2500.
Craig, L. J. .....328 Queen St.
Germantown 3723.
Cranston, Wm. C. .....1220 W. Dauphin St.
Diamond 6611.
Crawford, James F. .....1420 S. 23rd St.
Dickinson 2974.
Cullen, Ambrose J. .....2020 S. 18th St.
Dickinson 841.
Cunningham, Thos. J. .....1923 Orthodox St.
Frankford 1887.
Currie, Edw. J. .....50 Southampton St.
Chestnut Hill 610.
Cutler, Morris .....1811 N. 7th St.
Diamond 3956.
Dahn, Edw. .....3716 N. Broad St.
Tioga 7680. North 4314A.
Davenport, R. C. .....3963 Germantown Ave.
Tioga 5694.
Davis, Wm. D. .....1654 Orthodox St.
Frankford 1824.
Dean, P. J., & Son.....1126 S. Front St.
Lombard 3532J. Main 6184D.
Deist Bros. .....147 N. 16th St.
Locust 4558W.
Dempsey, Thos. F. .....7223 Woodland Ave.
Woodland 794.
Deresz, John .....3337 Salmon St.
Kensington 10.
De Rose & Morse .....1131 S. Broad St.
Dickinson 2630.
Devine, Henry A. .....1347 N. Alden St.
Belmont 8194W.
Dey, Charles .....1723 Ludlow St.
Locust 3079.
Diehl, Frank A. .....2208 N. 17th St.
Diamond 485.
Dietsch, Frederick C. .....1433 N. 58th St.
Belmont 5891.
Dietz, Louis G. .....2538 N. Hancock St.
Kensington 6675.
Donegan, M. J. .....4452 Germantown Ave.
Wyoming 645. North 4506A.
Donohue, Joseph F. .....318 N. 54th St.
Belmont 3346W.
Doody, James J. .....2724 Gray's Ferry Road
Dickinson 2340. Race 5974A.
Doran, Frank .....2743 N. Front St.
Kensington 142. East 372.
Dougherty, F. M. .....859 N. 12th St.
Poplar 453.
Dougherty, Frank P.,
Passyunk Ave. and Juniper St.
Dickinson 436.
Doyle, Christopher J. .....21st and Pine Sts.
Locust 1124. Race 2180.
Doyle, P. E. .....1323 Morris St.
Dickinson 214.
Doyle, Wm. J. .....929 Cherry St.
Walnut 4394. Race 1658.
Doyle, Wm. S. .....1401 N. 20th St.
Poplar 3881. Park 4671A.
Drummond, Gregor .....2642 Germantown Ave.
Diamond 641.
DuBois, John A. .....1326 Tioga St.
Tioga 7494.
Duncan, Morton E. .....4818 Baltimore Ave.
Woodland 809.
Duncan, Walter E. .....4902 Woodland Ave.
Woodland 315. West 4215D.
Durkin, D. F., Jr. .....1613 Pine St.
Locust 6665. Race 2715.
Dyke, Ernest .....1250 S. 53rd St.
Woodland 223.
Dykes, Frank .....4829 Rising Sun Ave.
Wyoming 117.
Einholz, Otto A. .....1634 N. 11th St.
Poplar 648. Park 4343D.
Eisemann, Conrad D. .....2817 Kensington Ave.
Kensington 6771.
Elker, Edw. A. .....29th and Diamond Sts.
Diamond 3254.
England, Geo. W. .....235 S. 5th St.
Lombard 2955. Main 1218.
England, Robt. M. .....5322 Market St.
Belmont 4408.

PLUMBERS---Continued

Bell Phone. Key. Phone.

English, Irwin H. .....636 N. 18th St. Poplar 4687.
English, Thos., & Son .....1817 Fairmount Ave. Poplar 2430. Race 5828D.
Enterprise Sanitary Plumbing Co., 1927 S. 8th St. Dickinson 971.
Everett & Dugan .....716 Walnut St. Walnut 3856.
Evanson, John E., & Son.....207 S. 10th St. Walnut 634.
Faith, S., & Co. .....2427 Pennsylvania Ave. Poplar 726-727. Race 211.
Fanus, Forest F. .....Beaumont, near 57th St. Woodland 4375.
Farley, James .....5422 Wyalusing Ave. Belmont 4140.
Feeney, Maney J. .....6150 Lansdowne Ave. Belmont 4124. West 4705A.
Ferguson, James S. .....236 S. 22nd St. Spruce 1133.
Ferguson, Lawrence L. .....2446 Ridge Ave. Diamond 4691.
Fine, Benjamin .....1927 S. 8th St. Dickinson 971.
Firth, Richard .....33rd and Wharton Sts. Dickinson 5278.
Fitzgerald, James P. .....133 S. 10th St. Walnut 2064.
Fitzpatrick, Frank E. .....263 S. 15th St. Spruce 3799.
Fitzpatrick, S. C. .....1029 Christian St. Walnut 2961.
Florence, Andrew .....2206 Columbia Ave. Poplar 5027.
Fluhrer, Chas. .....717 W. Venango St. Tioga 4634.
Flynn, Frank .....5002 York Road Wyoming 574.
Flynn & Love .....1506 Sansom St. Spruce 4148. Race 1757.
Fogerty, James T., & Son .....2031 N. 8th St. Diamond 8250.
Foley, M. J. .....1533 Porter St. Dickinson 343.
Ford, John F. .....317 S. 4th St. Lombard 3074. Main 6154D.
Forsythe, Wm. D. .....2634 N. Jessup St. Diamond 5430W.
Fox & Koffman .....1805 S. 6th St. Dickinson 6492.
Fox & Long .....3041 Ridge Ave. Diamond 5808.
Frank Bros. .....13th and Courtland Sts. Wyoming 1329.
Frank, Hermann C. .....2900 Bambrey St. Diamond 5201.
Frazier, Wm. R. .....2001 N. Cleveland St. Diamond 6613.
Freedman, H. .....1232 S. 17th St. Dickinson 7104.
Frey, Milton W. .....7700 Ridge Ave. Roxboro 420.
Frey, Wm. H. .....2935 D St. Kensington 2788W.
Fry, Mason K. .....811 Spring Garden St. Market 2331.
Gadsby, Howard V. .....3039 Frankford Ave. Kensington 965.
Gailey, Daniel .....1521 W. Venango St. Tioga 6956. Park 5129A.
Galligan Bros. .....722 S. 51st St. Woodland 736. West 4282D.
Garwood Plumbing & Heating Co., 12 N. 41st St. Baring 227.
Geimeyer, Otto .....3711 N. 5th St. Tioga 3761.
Gertz, Louis .....1208 N. 5th St. Kensington 382W.
Geseller, Andrew .....411 Poplar St. Market 2945.
Getty, Charles L. .....2513 N. 27th St. Diamond 4246W.
Gillespie, A. Lincoln .....622 S. Broad St. Dickinson 5901.
Gilroy, Walter B. .....3144 York St. Diamond 4200.

Bell Phone. Key. Phone.

Ginter, Frank C. .....15 N. 40th St. Preston 2322.
Glaser, Andrew, Jr. .....728 Poplar St. Market 660.
Glick, Morris .....870 N. 6th St. Market 1057.
Goldner, Herman .....425 W. Lehigh Ave. Kensington 2682. Park 219.
Goldstein, Elias .....734 Spring Garden St. Market 1918.
Goll, B. .....227 Green St. Market 3108.
Goodwin, Wm. .....21st and Westmoreland Sts. Tioga 2556. Park 4757D.
Gordon, Wm., Corp. .....30th and Walnut Sts. Preston 5613.
Gorges, Wm. S. .....1919 W. Susquehanna Ave. Diamond 529. Park 173.
Gormly, P., Co. .....155 N. 10th St. Filbert 2481. Race 890.
Gotwols, Geo., & Sons.....3107 Frankford Ave. Kensington 2726.
Gould, Geo. M. .....Real Estate Trust Bldg. Walnut 4327.
Grady, Frank J. .....5011 Chancellor St. Belmont 8896W.
Graf, Walter E. .....615 N. 57th St. Belmont 5102.
Graham, Daniel .....1822 W. Norris St. Diamond 74.
Gray & Dormer .....1729 Columbia Ave. Diamond 4486. Park 5185D.
Grey, Geo. B. .....115 S. 16th St. Locust 2111. Race 452.
Griffith, Harry M. .....935 N. 40th St. Preston 3298.
Griffiths, Wm. U. .....957 N. 9th St. Market 1379. Park 356.
Grimes, John A. .....2700 Cambridge St. Poplar 2480.
Grossman, Benj. S. .....525 S. 10th St. Walnut 2442.
Guenther, Chas. .....1804 S. 58th St. Woodland 2592.
Haas, John L., Co. .....3616 N. 15th St. Tioga 4277.
Hack, John B. .....912 S. 20th St. Dickinson 3480W.
Hahn, John J. .....609 Rising Sun Ave. Tioga 3106.
Haines, F. Darker .....4120 Lancaster Ave. Preston 4482.
Hallinan, James F. .....5218 Vine St. Belmont 3300. West 300.
Hamilton, Robt. A. .....425 S. 56th St. Belmont 5563.
Hansbury, Wm. V. .....6606 Torresdale Ave. Tacony 568.
Harburg, Chas. .....210 Brown St. Market 4848. Park 437.
Harkins, Mrs. D. .....1313 Fairmount Ave. Poplar 5718.
Harley, John .....2662 Coral St. Kensington 4308.
Harper's, Robt., Sons.....217 N. 16th St. Spruce 4121. Race 695.
Hartranft, Chas. E. .....2007 W. York St. Diamond 6478.
Helgenberg, Howard F. .....2032 E. Williams St. Kensington 2169.
Henry, Thos. A. .....3347 N. 5th St. Kensington 2789.
Hering, A. C. .....209 N. 3rd St. Market 767.
Hering, Philip .....409 Belgrade St. Kensington 977.
Hertsch, B. A. .....7959 Oxford St. Fox Chase 420.
Hey, Albert E. .....1442 W. Passyunk Ave. Dickinson 785.
Hicks & Bro. .....651 N. 8th St. Market 3833.
Higgins, Harrison Y. .....1516 Vine St. Spruce 1892. Race 1121.
Hirsch Bros. .....1130 W. Columbia Ave. Poplar 2318.
Hirst, George C. .....Torresdale Ave. Tacony 250.

Bell Phone. Key. Phone.

Hirst, W. C. .....3505 Longshore St. Tacony 581.
Hoben, Robert J. .....261 S. 21st St. Spruce 2587. Race 1172.
Hocking, T. H. .....5349 Chestnut St. Belmont 3608.
Hoeffelman, F. C., Jr. .....2021 N. 17th St. Diamond 835.
Hoffer, J. Edward .....27 S. 16th St. Spruce 4400.
Hoft, Paul J. .....245 S. 8th St. Walnut 1852. Main 3469.
Hoover, A. J. .....1947 E. Somerset St. Kensington 2777.
Horn, Benj. F. .....28 N. 5th St. Market 910. Main 2413.
Horwitz, Martin S. .....2944 W. Dauphin St. Diamond 803.
Howard, Edward .....646 E. Allegheny Ave. Kensington 2761.
Hoyle, Wm. .....134 W. Allegheny Ave. Kensington 1960.
Hunter, Robert H. .....3544 Kensington Ave. Frankford 174.
Hyatt, Wm. .....1927 N. 7th St. Diamond 8201.
Isman Joseph .....1439 N. 8th St. Diamond 2917.
Jackel's, Henry, Sons.....2200 E. York St. Kensington 1009.
Jackson, G. A. .....1030 N. 4th St. Market 662.
Jahn, Charles .....5309 Germantown Ave. Germantown 1580.
Jakoby, Anton .....3122 Kensington Ave. Kensington 707.
Jann, Chas. .....412 Green St. Market 2977.
Jarvis, John J. .....4441 Germantown Ave. Wyoming 579.
Jennings, Thos. .....86 E. Haines St. Germantown 5829.
Jerman, James M. .....162 E. Chelten Ave. Germantown 3606.
Joerger, Anton L. .....610 N. 3rd St. Market 2996.
Johnson, Robert D.....1315 N. 28th St. Poplar 4178.
Johnson, Walter S. .....3800 Terrace St. Manayunk 1825.
Jones, Walter .....1732 Columbia Ave. Poplar 199. Park 5449A.
Jordan, Edw. S. .....2670 Martha St. Kensington 952.
Jorgenson, Yern .....206 Bala Ave. Overbrook 2637.
Joy, Frank .....4361 Germantown Ave. Wyoming 676.
Kaeppler, Chas. W. .....1450 N. 28th St. Poplar 4047.
Kahler, Oscar A. .....3103 N. 15th St. Tioga 7929. Park 315.
Kane, Chas., & Son.....2306 N. 5th St. Kensington 2322.
Kane, Chas. J., Jr. .....705 E. Cornwall St. Kensington 1705.
Katzmann, Adolf .....318 W. Susquehanna Ave. Kensington 1568W.
Katzmann, Wm. .....310 W. Norris St. Kensington 5830.
Kearney, Joseph .....2203 Lombard St. Spruce 1204.
Keenan, Harry .....6227 Germantown Ave. Germantown 386.
Kelley, George .....3427 N. 35th St. Manayunk 56.
Kelly, George .....23rd and Pine Sts. Locust 3045. Race 2988.
Kelly, J. J., Cont. Co., Inc., York Road and Broad St. Oak Lane 1504.
Kelly, James A. .....1023 Christian St. Filbert 5828.
Kennedy, Dennis V. .....837 E. Chelten Ave. Germantown 5221.
Kennedy, James J., Jr. .....832 S. 58th St. Woodland 6610.

PLUMBERS---Continued

Bell Phone.	Key. Phone.
Kenney, John F.	930 N. 19th St. Poplar 4212.
Keough, M. V.	24th and Oakdale Sts. Diamond 8037.
Kerber & Slater	156 Sumac St. Manayunk 1815.
Kerper, Wm. Mackie	43 E. Chestnut Ave. Chestnut Hill 686.
Kettlewell, Wm. V.	28 S. 40th St. Preston 3757.
Kirk, Walter L.	2000 Medary St. Oak Lane 281.
Kirk, Wm. S., & Son	1537 Catharine St. Dickinson 1129.
Kite, Edw. J.	2905 Ridge Ave. Diamond 4436.
Kite, P. J.	2906 Diamond St. Diamond 4442.
Kite's, John H., Sons	2913 Ridge Ave. Diamond 4756.
Klein, Abe	621 S. 9th St. Walnut 5584.
Klein, S.	319 Poplar St. Market 2011.
Kleinfelder, Wm. F., Jr.	5502 N. 6th St. Wyoming 440.
Kline & Co.	1222 Callowhill St. Locust 1956.
Knight, J. N., & Son	Real Estate Trust Bldg. Walnut 4327.
Koenig, Joseph F.	3062 Chatham St. Kensington 896.
Koffman Plumbing & Heating Co.,	1733 N. Front St. Kensington 3310.
Krajeski, Henry	1930 N. 65th St. Woodland 612W.
Kramer, James H.	2112 Hunting Park Ave. Tioga 3233.
Krouse's, Wm., Sons	141 Fairmount Ave. Market 2704.
Kuhn, Frank J., & Son	4352 Cresson St. Manayunk 472J.
Lamb, Reuben J.	3011 Frankford Ave. Kensington 1963.
Landau, Benj.	1216 N. 4th St. Kensington 827. Park 5551A.
Lang, John A.	248 Queen Lane Manheim 3937.
Lee, Ivan R.	5546 Pulaski Ave. Germantown 5603.
Leigo, John P.	1023 Christian St. Filbert 5828.
Leinau, Robert	111 S. 7th St. Walnut 367.
Lentz, John	612 W. Girard Ave. Market 447. Park 4630A.
Levitt, Joseph	920 S. 5th St. Lombard 5009W.
Levy, Harry	1148 Passyunk Ave. Dickinson 1314.
Lewin, Wm. A.	1500 Ridge Ave. Poplar 5687.
Littman, Edw. I.	2719 N. 5th St. Kensington 1524.
Lodge, Harry F., Inc.	1633 Ranstead St. Locust 408. Race 4436.
Long, Graham W.	1402 Federal St. Dickinson 784. Race 5433A.
Lopetz & Uzzo	1213 Federal St. Dickinson 1628.
Lopez, Victor J.	2132 N. 16th St. Diamond 3637. Park 1084.
Loughery, R. G., & Son	1019 Cherry St. Walnut 1893. Race 5427A.
Lowden, J. F.	104 S. 40th St. Preston 4744.
Lowener, J. Gilbert	13th and Race Sts. Locust 4114.
Lutz, Henry, & Co.	210 N. 16th St. Spruce 4106. Race 5537A.
McBreen, Thos. P.	2424 N. 29th St. Diamond 7087W.
McCabe, Andrew L.	1352 Wagner St. Wyoming 2575.
McCarthy, Henry	246 S. 40th St. Preston 2922.
McCarthy, Timothy	4211 Woodland Ave. Woodland 5817.
McClain, Wm. H.	5924 W. Girard Ave. Belmont 2020.
McClellan, Alfred J.	2613 Brown St. Poplar 1002.
McClernon & Stilfield	2641 N. 28th St. Diamond 9672W.
McCloskey, James	3226 Chestnut St. Preston 3860.
McCloskey, C. Y.	724 W. Erie Ave. Park 480.
McCoach, Wm.	108 S. 20th St. Spruce 2208. Race 1187.
McCormick, Louis A.	1223 N. Redfield St. Belmont 3637.
McCoy, Charles E., Co., Ltd.	18 N. 19th St. Locust 2164. Race 6034D.
McCuliff, Wm. J., Plumbing & Heating Co.,	1209 N. Redfield St. Belmont 761. West 409.
McCullough, F. J.	1033 Jackson St. Dickinson 333.
McCullough, Frank	111 Catharine St. Lombard 2749.
McCusker, Francis X.	929 W. Dauphin St. Diamond 6843.
McCusker, John J.	929 W. Dauphin St. Diamond 6843.
McDermott, Thos. J., & Sons.	2118 Columbia Ave. Poplar 5909W.
McDevitt, J. J.	4329 Germantown Ave. Wyoming 648. Race 6443A.
McElwee, Hugh, & Sons,	Coral and Huntingdon Sts. Kensington 4550.
McFadden, Jas. A.	5416 Thomas Woodland 3974.
McFall, John T., & Son	4801 Woodland Ave. Woodland 2348.
McFarland, Robt. B.	2007 S. 7th St. Dickinson 1479.
McGarry, F. J., & Bro.	4326 Lancaster Ave. Preston 4188.
McGinnis, Jas. R.	110 S. 55th St. Belmont 8585W.
McGinnis, Jos. M.	40th above Lancaster Preston 4320. West 576.
McGowan, Thos. F.	2832 Girard Ave. Poplar 4193.
McGuckin, J., & Bro.	1023 Christian St. Filbert 5828. Main 914.
McGuckin & Smith	1634 S. 19th St. Dickinson 3667.
McGuigan, C. F.	19th and Huntingdon Sts. Diamond 630. Park 5082A.
McHugh, R. F.	7029 Woodland Ave. Woodland 4651.
McKee, John W.	1310 City Lane Oak Lane 349.
McKernan, Thos. A.	1622 Ritner St. Dickinson 2937.
McLaughlin, Francis A.	4028 Locust St. Preston 2888.
McLaughlin, Geo. E.	Park and Columbia Aves. Poplar 1553.
McMahon, Jos. P.	656 E. Hilton St. Kensington 5784.
McNally, John V.	8607 Germantown Ave. Chestnut Hill 743.
McNally, Robt. J.	5618 Germantown Ave. Germantown 1107. North 4473A.
McNamara, John H.	1109 S. 47th St. Woodland 716.
McStravick, Jas. P.	1800 Cayuga St. Wyoming 4865W.
McVeigh, John A.	1061 Ridge Ave. Poplar 369.
Magee, Albert J.	513 S. 20th St. Locust 2980.
Magee, Jas. C.	323 S. 13th St. Walnut 891.
Magee, Jas. C.	513 S. 20th St. Locust 2980.
Magee, Vincent P.	323 S. 13th St. Walnut 891.
Magee, Vincent P.	513 S. 20th St. Locust 2980.
Magee, Wm. J.	2045 E. Chelten Ave. Oak Lane 480.
Major, Robt., & Son	4309 Locust St. Preston 4207.
Mallo, John	1329 N. 5th St. Kensington 4371W.
Maloney, Jas. P.	2125 Christian St. Locust 1681.
Maloy, Peter	6001 Kingsessing Ave. Woodland 2654.
Mann, Louis	1216 W. Montgomery Ave. Diamond 3453.
Manning, Herbert	823 Spring Garden St. Market 2219.
Mardin, Geo. B.	1336 N. 52nd St. Belmont 1308.
Martin, Richard L.	1116 W. Susquehanna Ave. Diamond 466.
Mathews, E. T., & Bro.	2100 N. Franklin St. Diamond 7831.
Mathewson Bros.	5147 Girard Ave. Belmont 3841.
Matthews, J. W., Co.	15th and Race Sts. Locust 1068.
Mayberry, Wm. U.	524 Walnut St. Lombard 2212. Main 3368.
Mears & Dwyer	109 N. 7th St. Market 1863.
Meldrum, Alexander	3249 N. Front St. Kensington 1092.
Melling, G. A., Co.	4223 Frankford Ave. Frankford 27. East 4242D.
Menges, Paul	229 Locust St. Lombard 3709.
Mentzinger, W. W.	211 S. 8th St. Walnut 1414.
Merriel, Edwin G.	245 N. Paxon St. Belmont 4798.
Mervine Bros.	208 S. 7th St. Walnut 809.
Metz, H., & Co.	3867 Cambridge St. Preston 4919.
Meyer, Wm. G.	210 Diamond St. Kensington 504.
Mick, Harry J.	1350 Ridge Ave. Poplar 5257.
Miles, A. R.	7215 Germantown Ave. Chestnut Hill 876.
Mitchell, Harry H.	506 S. 60th St. Belmont 7611W.
Modern Plumbing & Heating Co., Inc.,	3621 Market St. Baring 1964. West 284.
Moeller, George	15th and Parrish Sts. Poplar 418.
Molloy, Harry J.	518 N. 19th St. Poplar 3767.
Moloney, Jas. P.	2125 Christian St. Locust 1681.
Mondschein, Wm., & Co.,	1637 W. Susquehanna Ave. Diamond 636.
Moore, John F.	2518 Germantown Ave. Diamond 4828.
Moore, Wm. W.	5266 Addison St. Woodland 4969.
Moran, Charles	429 S. 16th St. Locust 6623.
Morford, Lewis	1228 N. 12th St. Poplar 3737.
Morrison, Chas. F.	610 S. 60th St. Belmont 265.
Morrison, Walter C.	701 S. 51st St. Woodland 435.
Moser, E. Herman	5541 N. 5th St. Wyoming 495.
Muench, Wm. P.	70th Ave. and York Road Oak Lane 333.
Mulhern, John J.	3625 Haverford Ave. Preston 2155.
Mullen & Nolan	728 Oxford St. Diamond 1161. Park 4308D.
Mullin, John F.	5009 Westminster Ave. Belmont 4191.
Murphy, Geo. D.	7114 Germantown Ave. Chestnut Hill 2149W.

PLUMBERS---Continued

Bell Phone.	Key. Phone.
Myers, Guy S.	6815 Greenway Ave. Woodland 2720.
Myers, Wm. W.	1002 Ridge Ave. Walnut 671.
Nadel, Nathan	5118 Market St. Preston 5919.
Narr, Albert J.	535 E. Girard Ave. Kensington 5913.
Nash, Walter H.	730 S. 15th St. Dickinson 5952.
Neilson, Howard	7206 Germantown Ave. Chestnut Hill 924.
Nepps, Chas. F.	24th and Berks Sts. Diamond 3221W.
Newell, John D.	1709 Sansom St. Locust 1478. Race 1719.
Newell, Wm., & Son	1707 Sansom St. Locust 1260. Race 2860.
Newsome, John R.	2557 N. Front St. Kensington 4673. East 4342A.
Nicholson, G. W., & Bro.	17th and Wharton Sts. Dickinson 1036. Race 2689.
Niederberger, Harry E.	2529 W. Hagert St. Diamond 6145.
Nitterour, Jas. G.	17 W. Rittenhouse St. Germantown 5935.
Nolan, J. B.	830 Walnut St. Walnut 606.
Noon, George J.	1513 Tasker St. Dickinson 1021.
Oakes, Wm.	260 S. 10th St. Filbert 2666.
Obenland, Wm.	230 E. Allegheny Ave. Kensington 366.
Oberlies, A. W.	2005 Federal St. Dickinson 2245.
O'Brien, C. F.	704 S. 8th St. Walnut 4648.
O'Brien, J. C.	928 Ridge Ave. Walnut 7078.
O'Brien, Joseph S.	934 Pine St. Walnut 1342.
Odgers Bros.	1320 Poplar St. Poplar 2021.
O'Donnell, John J.	Reed and Ringgold Sts. Dickinson 4530.
O'Neill & Melling	4223 Frankford Ave. Frankford 27.
Oppmann, Arthur H.	2014 N. 3rd St. Kensington 2994.
Overbrook Plumbing Co.	Woodbine and P. R. R. Overbrook 565. West 94.
Palsky Plumbing Co.	1220 Pt. Breeze Ave. Dickinson 2211.
Pangborn, E. C.	17th and Dauphin Sts. Diamond 3405.
Park Bros.	5844 Montrose St. Woodland 1480.
Park, Wm., Jr.	1211 Cherry St. Locust 4026.
Parker, Michael	713 Sansom St. Walnut 4265.
Pass, Louis	4019 N. 9th St. Tioga 6528J.
Paullin, E. Frank	2014 Columbia Ave. Poplar 2843.
Peale's, A. R., Sons	12th and Norris Sts. Diamond 735.
Pearl, Harry	5900 Chestnut St. Belmont 3315.
Peltz, Morris	142 Vine St. Market 2596.
Pennock, J. Sellers	1220 Locust St. Walnut 1441. Race 994.
Pepper, Hyman	2015 N. 18th St. Diamond 1824.
Peters, W. Adolph	2838 W. Lehigh Ave. Diamond 614.
Pfeffer, F.	6029 Dittman St. Frankford 1483W.
Pflugfelder, Robt. H.	8th and Norris Sts. Diamond 7562. Park 7.
Phila. Plumbing Co.	2007 S. 7th St. Dickinson 1479.
Phila. Plumbing & Heating Co.	525 S. 10th St. Walnut 2442.
Phila. Steam Heating Co.	Juniper and Cherry Sts. Locust 4576. Race 3414.
Powell, Chas. R.	4200 Aspen St. Baring 7737.
Powell, Fred H.	1732 N. 19th St. Diamond 4788. Park 1692.
Power, Geo. H.	58th and Arch Sts. Belmont 8337.
Powers, Jas. V.	5657 Chew St. Germantown 384. North 37.
Prete Rocco & Bros.	1605 S. 12th St. Dickinson 3148.
Progressive Plumbing Co.	893 N. 6th St. Market 2548.
Quindlen, Eugene	1301 S. 54th St. Woodland 2969.
Quinn, John A.	1613 Unity St. Frankford 588. East 4510A.
Raid, Walter	4134 N. Franklin St. Tioga 2503.
Raynor Plumbing Co., Inc.	1332-34 McKean St. Dickinson 160.
Rea, Irvin B.	2521 N. 18th St. Diamond 155.
Reed, Andrew K.	1643 N. 13th St. Poplar 117.
Reed, W. P.	5223 Haverford Ave. Belmont 7242.
Reeves, Chas. R.	33 Manheim St. Manheim 3603.
Rentschler, W. F., & Bro.	2631 Girard Ave. Poplar 3738. Race 3211.
Rhodes, N. Walter	1348 W. Somerset St. Tioga 2603.
Rice, C. Walter	4209 Frankford Ave. Frankford 298.
Rich & Van Loon	134 E. Pleasant St. Germantown 2948W.
Rickly, H. E.	3433 N. 16th St. Tioga 5802.
Rider, Howard A.	4401 N. Franklin St. Tioga 3453.
Rieben, Chris.	25th and Dauphin Sts. Diamond 4015.
Righter, H. L.	5424 Germantown Ave. Germantown 524. North 4413A.
Rinear, E. H.	3218 Kensington Ave. Kensington 560.
Roach, John J.	1636 N. 27th St. Poplar 394.
Roberts, Edw. F.	2622 Columbia Ave. Poplar 1127. Park 927.
Robertson, Chas. T., & Son	5909 Thompson St. Belmont 7643.
Robinson, Albert W.	1823 Catharine St. Locust 1475.
Robinson, John L.	9 N. 39th St. Preston 2818.
Robinson, W. J.	6202 Germantown Ave. Germantown 2434.
Robinson, Wm. J., Jr.	6102 Ridge Ave. Roxboro 184.
Rockett, T. T.	629 N. 19th St. Poplar 2416. Race 6042D.
Roper, Wm. S., & Co.	5528 Baltimore Ave. Woodland 1896.
Rosenbaum, Albert	2204 N. Marshall St. Diamond 1594.
Rosoff & Sebel	3984 Pennsgrove Baring 1633. West 597.
Ross, Walter R.	3601 Lancaster Ave. Preston 2925.
Rotan & Dunhour	3610 Haverford Ave. Baring 1377.
Rothman, A. H.	1803 N. 31st St. Diamond 4870.
Rothschild, Nathan	11th and Ellsworth Sts. Dickinson 1345. Race 122.
Roxborough Plumbing & Heating Co.	6168 Ridge Ave. Roxboro 2244.
Ruhl, Frank M.	1102 N. 4th St. Market 323.
Rule, Robt.	5114 Baltimore Ave. Woodland 256.
Rush, John J.	5630 Chew St. Germantown 560.
Russell, W. H., & Sons	3916 Terrace Manayunk 1154.
Ryan, Wm. V.	1626 S. 18th St. Dickinson 626.
Salaman, Abel	893 N. 6th St. Market 2548.
Sanitary Co. of America	Drexel Bldg. Lombard 3539.
Scheid, Franklin C.	15th and Snyder Ave. Dickinson 618. Race 131.
Schenck, J. Ernest	1332 Fairmount Ave. Poplar 2024.
Scholl, Joseph	2712 Girard Ave. Poplar 2125. Race 358.
Schollenberger, E. R.	1713 Sansom St. Locust 3977.
Schreiner, J. G.	1434 Frankford Ave. Kensington 1018.
Schwinn, Geo.	1524 W. York St. Diamond 296.
Segal, Harry	1934 S. 5th St. Dickinson 3280W.
Segal, Sigmund	441 N. 6th St. Market 4233.
Seiberlich, Jos. M.	520 Diamond St. Diamond 7653.
Seixas, Chas. M.	1137 Race St. Spruce 5039.
Seligman, Harry	5426 Market St. Belmont 7475. Main 3318.
Shand, Robt. H., Co.	1421 Susquehanna Ave. Diamond 551.
Shapcott, Abraham	2239 Fairmount Ave. Poplar 973.
Shaw, Chas. H.	18 E. Bringhurst St. Manheim 3616.
Shaw, Harry C.	3509 Market St. Preston 2250.
Shaw, John J.	4234 Market St. Preston 4503.
Sheets & Hebden	39 N. 17th St. Spruce 2607.
Shenker, Morris	1824 South St. Locust 952. Race 5640A.
Shestack, David	3557 Frankford Ave. Frankford 2100.
Shore, Philip V.	2769 Hemberger Diamond 7790W.
Shotts, C. G., Jr.	1222 Morris St. Dickinson 425.
Shreve, Isaac S.	3703 Longshore St. Tacony 275.
Simon, A. L.	443 N. 63rd St. Belmont 5024.
Sinkler, Chas. F.	1220 N. 19th St. Poplar 1493.
Slater, Harry	156 Sumac Manayunk 1815.
Smalley & Hurst	107 E. Chelten Germantown 995.
Smiley, Jos. A.	1636 Ludlow St. Locust 1747.
Smith, A. W. & E. H.	2548 W. Columbia Ave. Poplar 1045.
Smith, Chas. E.	17 E. Coulter Germantown 1251
Smith, Geo.	1821 Church Frankford 287.
Smith, Howard, & Co.	42 Armat Germantown 534.
Smith, Nathan E.	455 Richmond Kensington 2318.
Smith, S.	1634 S. 19th St. Dickinson 3667.
Smith, Walter C.	1722 Federal St. Dickinson 2940.
Smith, Wesley S., & Co.	1830 W. Susquehanna Ave. Diamond 884.
Smith, Wm. R.	4440 Wingohocking Frankford 1736.
Snear, Wm. T.	4204 Pechin Roxboro 1119.
Sobel, H.	1004 S. 2nd Lombard 1311.
Soehle, Jas.	3145 N. 15th Tioga 4664.
Sommer, Louis J., & Son	2436 Brown St. Poplar 4737. Race 5789A.
Speth, Fred P.	3531 N. 5th Kensington 1072. Park 5266D.
Spiers, S.	609 Rising Sun Tioga 3106.
Staake, Walter M.	1620 N. 20th Poplar 2353.
Steel, Robert	6650 Germantown Ave. Germantown 364.

PLUMBERS---Continued

Bell Phone.	Key. Phone.
Steele, Alex.	615 S. 18th St. Dickinson 5913.
Stevens, David L.	4932 Germantown Ave. Wyoming 3092.
Stewart, Jos.	800 S. 18th St. Locust 596.
Stilwell, Harry L.	13th and Windrim Wyoming 822.
Stockley, Wm. E.	4529 Springfield Woodland 5740.
Stoll, John	311 E. Girard Kensington 625.
Stoltz, Al. F.	2456 Germantown Ave. Diamond 7337.
Storch & Co.	1102 Wolf St. Dickinson 5821.
Story, Elwood B.	6006 Market St. Belmont 2738.
Stratton, Arthur F.	1627 W. Huntingdon Diamond 8833.
Struse, E. C.	119 Green Lane Manayunk 119. North 4480D.
Suessenguth, Walter A.	1908 Germantown Ave. Diamond 7715.
Sutch, Thos. B.	1011 W. Huntingdon St. Diamond 5300.
Sutterley, W. W.	503 N. 52nd St. Belmont 955. West 5029A.
Swartz, Joseph	2304 E. Norris St. Kensington 436.
Sweidman, Philip	753 S. 22nd St. Spruce 2086.
Tabachnik, L.	995 N. Marshall St. Market 455. Park 6588A.
Talley, Jas. S.	1931 Market St. Locust 945. Race 252.
Taylor, Geo. T. M.	6125 Vine Belmont 4653.
Taylor, H. J., & Bro.	513 S. 12th Walnut 1031.
Thomas, Harry M.	69 E. Wister Manheim 4446W.
Thomas, Leon H.	731 S. 58th Woodland 5343.
Thorn, I. Barclay	2446 Ridge Diamond 4691.
Tinnerman & Co.	60th and Arch Belmont 620. West 347.
Topham, Wm. N.	6033 Germantown Ave. Germantown 60.
Toy, Edw. J., & Son	1621 Ontario Tioga 7415.
Toy, Frank D., & Son	621 S. 52nd Woodland 3385W.
Toy, Frank D., & Son	55 N. 10th Walnut 463.
Truitt, T. H.	1229 N. 19th St. Poplar 1171.
Uber, Chas. H.	5432 Chester Woodland 21.
Uber, Geo. F., & Bro.	13th and Fairmount Poplar 2509. Park 307.
Uber, Norman W. C.	4634 Woodland Woodland 341.
Uzze, Peter J.	1213 Federal St. Dickinson 1628.
Valiante, Tony	1931 S. 13th St. Dickinson 5013.
Van Loan, M. N.	1127 Wyoming Wyoming 4931.
Vearling, Chas. F.	2921 Ridge Diamond 4484.
Vogt, Theo. J.	2100 S. Lambert Dickinson 4188W.
Wackenhut, Fredk. G.	2416 Frankford Kensington 1918.
Wagner, Albert C.	308 Somerville Wyoming 993W.
Wainwright, Wm.	4633 Frankford Frankford 633.
Walker, A. H.	3529 N. 17th Tioga 3470.
Walker & Payson	Chelten and Lambert Oak Lane 1524.
Walko, John	East Southampton Ave. Chestnut Hill 1131W.
Walter, Wm. J.	102 S. 60th Belmont 5079. West 4680D.
Walters, Purks & Mellon	4419 Ludlow Preston 2186. West 520.
Ward, John G.	1628 N. 17th Poplar 1276.
Warfield, C. S.	333 S. 20th Locust 709.
Waring, Benj.	3313 N. 5th Kensington 2695W.
Warner, Chas.	1418 Kerbaugh Tioga 5207.
Watson, Richard H.	1707 Chestnut Spruce 3707.
Watt, Robt., Mfg. Co.	1701 N. 20th Diamond 752.
Webb, Wm. K.	242 E. Girard Kensington 607.
Weber, Henry E.	3729 N. 9th Tioga 2115.
Weber, Wm. F.	1606 N. Sydenham Poplar 3845.
Weckerly, H. C., Jr.	3002 W. Cumberland Diamond 439.
Weer, George P.	4209 Ridge Manayunk 238.
Weidemann Bros.	743 E. Allegheny Kensington 2363. East 457.
Weinrich, E. E.	5000 Larchwood Woodland 347.
Weir, Robt. G.	237 W. Girard Kensington 927. Park 4448A.
Weir, W. J.	1933 S. 17th Dickinson 561
Welischek, John	610 N. 8th Market 1195.
Wells & Newton Co.	Widener Bldg. Walnut 314.
Wenkenbach, Fredk.	2608 Girard Poplar 3833.
Wentz, Ellwood	6801 Sprague Germantown 3808.
Wenzell, B. F.	2809 N. Mervine Tioga 5889.
Whealin, M. H., & Son	1336 W. Girard Poplar 2183.
White, Geo. S., Jr.	742 S. Alden Woodland 6999.
White, Wm.	2216 Ridge Poplar 2451. Park 857.
White, Wm. J.	408 Walnut Lombard 1819.
Wiedmann, Leo A.	2343 N. 22nd Diamond 776.
Wilkinson, Chas.	265 S. 20th Spruce 4199.
Williams, Chas. J.	2340 N. 32nd Diamond 664. Park 879.
Wilson, J. B., Co.	4209 Frankford Ave. Frankford 298.
Wilson, S. M.	4072 Haverford Preston 3434.
Wilson, Samuel J.	1412 Moore Dickinson 4276.
Wilt, Jos. A.	2224 E. York Kensington 3905. East 326.
Winterholer, Albert	2812 N. 3rd Kensington 1081.
Woehr, Chas. F.	5003 N. 5th Wyoming 443.
Worley, E. H.	7 S. 52nd St. Belmont 1465.
Worrall, Harry C.	1710 N. 27th St. Diamond 6128.
Wynkoop, Jos.	2237 Frankford Kensington 539J.
Yearsley, Levis N.	727 Spring Garden Market 1773.
Young, Albert E.	1625 Margaret Frankford 1738W.
Young Wm. J.	28 N. 16th Spruce 432.
Zimmerman, Harry G.	23rd and Huntingdon Diamond 5490.
Zimmerman, Jacob	1524 Sansom St. Spruce 3781.
Zimmerman, W. H.	1221 Arch St. Spruce 2084.
Zink, George W.	22nd and Sargeant Diamond 6461.

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Bell Market 2780 **Keystone Main 795**

Bell Phone.	Key. Phone.
American Pipe & Supply Co.	1514 S. 9th St. Dickinson 3616. Main 306.
American Tin & Terne Plate Co.	2400 Vine St. Locust 165. Race 2171.
B. & M. Vent Co.	212 N. 2nd St. Market 1267.
Betz, Wm., Jr.	2826 Frankford Ave. Kensington 5898.
Blessing, C. A., Est.	516 Montgomery Ave. Diamond 8322.
Blitz, Adolph	2148 Ridge Ave. Poplar 224.
Bridgman Bros. Co.	131 S. 31st St. Preston 5800. West 700.
Cahill Iron Works	Drexel Bldg. Lombard 2689. Main 2872.
Camden Pottery Co.	1511 Sansom St. Spruce 2239.
Central Plumbing Supply Co.,	12th and Spring Garden Sts. Poplar 1136.
Central Tube Co.	Morris Bldg. Spruce 4144. Race 1412.
Clow, James B.	Bourse Bldg. Lombard 490. Main 75.
Cooper Sanitary Mfg. Co.,	34th and Chestnut Sts. Baring 307. West 183.
Crane Co.	245 Master St. Kensington 5450. Park 960.
Endicott Weber Co.	1224 Columbia Ave. Poplar 6110. Park 338.
Fisher, M., & Son	710 Passyunk Ave. Lombard 2161. Main 3728.
Fleck Bros. Co., Inc.	50 N. 5th St. Market 1655 Main 2630.
Ford & Kendig Co.	1428 Callowhill St. Spruce 5310. Race 5030.
Froelich Bros., Inc.	142 N. 7th St. Market 1248. Main 4626.
Gitomer-Miller & Co.	818 Washington Ave. Dickinson 1026.
Haines, Jones & Cadbury Co.	1136 Ridge Ave. Poplar 502. Race 502.
Hartman Co.	1231 N. Front St. Kensington 1233. East 155.
I. X. L. Pump & Mfg. Co.	957 N. 9th St. Market 1379. Park 356.
Johnson, J. D., Co.	139 N. 7th St. Market 3870-71. Main 2440-41.
Johnson & Blitz	718 South St. Walnut 2619. Main 1013.
Kensington Plumbing Supply Co.,	2548 Kensington Ave. Kensington 2070.
Keystone Supply & Mfg. Co.	927 N. 9th St. Market 4135. Park 1120.
Kitson Co.	2819 Oakford St. Dickinson 142.
Kohler Co.	Morris Bldg. Spruce 668.
Kohn, Jos. C.	812 South St. Walnut 6884. Main 3404.
McCambridge Co.	20th and Wood Sts. Locust 1240. Race 781.
MacMullen & Co.	1037 Race St. Walnut 2066. Race 1047.
Moore, Evan L.	Liberty Bldg. Walnut 1265.
Mort Plumbing Supply House,	4th and Girard Ave. Market 4430. Park 4818A.
Mott, J. L., Iron Works	1006 Filbert St. Filbert 3860. Race 3860.
Orlowitz, George, & Son	326 South St. Lombard 1131.
Orlowitz, Maurice C.	2548 Kensington Ave. Kensington 2070. East 4524A.
Peerless Selling Co.	634 W. Girard Ave. Market 2243.
Perkes, Charles, Co.	627 Arch St. Market 2780-81. Main 795.
Quaker City Spec. Co.	332 N. 6th St. Market 3151J. Main 5578A.
Russell Mfg. & Equip. Co.	718 Cherry St. Market 3218. Main 578.
Sanitary Specialties Co.	1836 E. Clearfield St. Kensington 512. East 408.
Savill's, Thos., Sons	1310 Wallace St. Poplar 1146. Race 1146.
Schaffer, Chas. W., Co., The	3214 Chestnut St. Baring 1726.
Shuster Plumbing Supply Co.,	Franklin and Willow Sts. Market 3874. Main 871.
Smith, C. W.	2554 Diamond St. Diamond 3844.
Standard Sanitary Mfg. Co.	1215 Walnut St. Walnut 4436. Race 4036.
Stein, M.	5330 Market St. Belmont 7778. West 613.
Sternberg, Simon	318 S. 60th St. Belmont 5185.
U. S. Sanitary Mfg. Co.	Land Title Bldg. Spruce 2503.
Utica Valve & Fixture Co.	Real Estate Tr. Bldg. Walnut 5137.
Walls, Owen & Stambach Co.	11th and Ridge Ave. Poplar 1182. Race 791.
Weber, C. L., & Co., Inc.	1118 W. Somerset St. Diamond 7510. Park 867.

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Bell Phone.	Key. Phone.
Flotron, Paul E.	Lafayette Bldg. Lombard 3003.
Livezey, John R.	1933 Market St. Locust 155. Race 3520.

Reinforcing Bars.

Reinforcing Bars

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Reinforcing Bars—Continued.

Bell Phone.	Key. Phone.
American Steel & Engineering Co.	1614 Cherry St. Locust 1975.
Concrete Steel Co.	Penna. Bldg. Locust 1341. Race 1341.
Corrugated Bar Co.	Transportation Bldg. Spruce 5747.
Hammond, R. R., & Co.	Widener Bldg. Walnut 4084.
Lukens, Lewis N.	19th and Washington Ave. Dickinson 6856.
McCalla, Harold, Co.	531 N. 4th St. Market 3012. Main 886.
Morris, Wheeler & Co.	30th and Locust Sts. Preston 5900. West 680.
Truscon Steel Co.	Commonwealth Bldg. Walnut 660. Race 3472.
Witherow Steel Co.	Widener Bldg. Walnut 4084.

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Race 1-77 Locust 2313

Van-Kannel Revolving Door Co.,	1416 Land Title Bldg. Locust 2312. Race 177.
Wilson, F. J., Co.	1416 Land Title Bldg. Locust 2312. Race 177.

Roofing and Sheet Metal Work.

Abrouski Bros.	1615 Stiles St. Poplar 481.
Acme Sheet Metal Works	3301 Filbert St. Preston 4562.
Adams, Chas. H.	6322 Woodland Ave. Woodland 97.
Adams & Marple	1431 Ridge Ave. Poplar 2601.
Aetna Eng. Co.	145 N. 3rd St. Market 1135.
Alexander-Johns Co.	1615 Stiles St. Poplar 481.
Allen, Henry S., & Son	603 W. Venango St. Tioga 2111.
American Insulation Co.	Roberts and Stokley St. Tioga 8700. Park 335.
American Sheet Metal & Roofing Co.,	1533 Appletree St. Locust 4284.

Roofing and Sheet Metal Work---Continued

Bell Phone.	Key. Phone.
Atlantic Sheet Metal Co.	1367-69 Ridge Ave. Poplar 249.
Barrett, John C.	1131 S. 16th St. Dickinson 570. Race 5716A.
Basford, Erickson & Co.	24 Armat St. Germantown 676. North 172.
Bauer, Geo. J.	26th and Sergeant Sts. Diamond 2728.
Bauerle, A. E.	3544 N. 13th St. Tioga 8139.
Berman, S.	805 N. 13th St. Poplar 2921.
Berman & Son	2123 N. 32nd St. Diamond 8872J.
Berner, George	444 W. Wyoming Ave. Wyoming 4981.
Beswick, Richard	330 S. 4th St. Lombard 1209.
Beyer, Irwin H.	1488 N. 52nd St. Belmont 4835.
Beyer, Paul	834 N. 4th St. Market 543.
Bickhardt, Louis	405 W. Ontario St. Kensington 442.
Blair, Geo. J.	5905 Spruce St. Belmont 531.
Blaker, Benj.	1923 N. 8th St. Diamond 9636W.
Blefgen, Henry J.	868 N. 4th St. Market 4008.
Boehm, A. & G.	15th and Federal Sts. Dickinson 463. Race 2935.
Bonsall's, Wm. S., Sons	3824-26 Market St Baring 1322. West 4549A.
Bork, Wm.	3301 Filbert St. Preston 4562.
Bortel, E. S., Co.	1913 Washington Ave. Dickinson 1092. Race 5464A.
Boyle, Jos. A.	73rd and Paschall Ave. Woodland 3470W.
Brinkmann Bros.	2615-17 Frankford Ave. Kensington 3530. East 4400D.
Brinkman, Henry	1644 Orthodox St. Frankford 1553.
Brown, Jos. E.	1003 Race St. Walnut 1419. Race 318.
Buchert, Samuel W.	1602 W. Venango St. Tioga 7400.
Budd, Edw. G., Mfg. Co.,	25th and Hunting Park Ave. Tioga 5490. Park 1280.
Buzby, Wm. R., & Son	5324 Rising Sun Ave. Wyoming 366.
Berner, Wm.	3045 N. 3rd St. Kensington 4937.
Call, John A.	122 N. Franklin St. Market 4969. Main 3197.
Callahan, Charles	42 N. 2nd St. Market 3035. Main 70.
Callahan, Frank A.	251 N. 2nd St. Market 3715.
Campbell, Benj. F.	1100 W. Tioga St. Tioga 4118W.
Carey, Philip, Co.	Roberts and Stokley St. Tioga 8700. Park 1689.
Carney, John J.	5936 Chester Ave. Woodland 2817W.
Carr, John F.	4032 Germantown Ave. Tioga 4836.
Carre, Louis H., Est.	143 N. 13th St. Locust 4041.
Cassel, Joseph K.	5438 Vine St. Belmont 1114. West 64.
Central Cornice Works	1033 S. 54th St. Woodland 6125.
Chorney, Victor	1033 Parrish St. Poplar 1304.
Cohn, A.	941 N. 2nd St. Market 4821J. Park 5507D.
Cohn, Philip	1139 N. 2nd St. Market 1590W.
Colbert, Francis M., Inc.	5208 Baltimore Ave. Woodland 2293.
Coll, Frank J.	259 N. Lawrence St. Market 313.
Collins, Matthew M.	1834 Cabot St. Poplar 1697.
Columbia Heating & Roofing Co.,	6212 Gray's Ferry Road Woodland 446.
Columbia Roofing Co.	809 Montgomery Ave. Diamond 5850.
Consolidated Cornice Works	2519 Moore St. Dickinson 730.
Corbin, Jas. W.	706 Oak Lane Oak Lane 1522.
Cornell, H. T.	1845 N. 6th St. Diamond 7708.
Creed, Irving J.	1639 N. 55th St. Belmont 8806.

Bell Phone.	Key. Phone.
Crossley, Samuel C.	2414 S. 63rd St. Woodland 5720W.
Dash & Wolf	3116 Ridge Ave. Diamond 6597.
Davenport, Thos.	Ruth and Cambria Sts Kensington 496.
Decker, John, & Son	2704 Girard Ave. Poplar 4501. Race 1336.
Dettinger, C. A.	2204 Frankford Ave. Kensington 4461.
Diegel, Wm.	1313 N. Warnock St. Poplar 2006.
Dietz, C. A.	4740 Market St. Preston 2630. West 751.
Donnelly, John D.	938 W. Huntingdon St. Diamond 4782. Park 5141A.
Donohue, Wm. F., & Bro.	12 W. Rittenhouse St. Germantown 6064W.
Donovan, Emmet	52nd and Catharine Sts. Woodland 148.
Donovan, Wm. J.	1832 Ingersoll St. Poplar 569. Park 158.
Dragan Roofing Co.	720 S. 22nd St. Spruce 2473.
Drieling, G. A.	2041 N. Leithgow St. Kensington 5846W.
Dux, Frank J.	2239 N. 2nd St. Kensington 4289.
Eachus & Jamison	3rd and Cambridge Sts. Market 343.
Easterbrook, Wm., Jr., & Bro.	311 Cherry St. Market 764.
Eckel, Harry	Broad and Wagner Sts. Wyoming 1304.
Ecker, Israel	439 Titan St. Main 2392.
Ehret Roofing & Mfg. Co.	Drexel Bldg. Lombard 399. Main 2398.
Endis, Davis	5th and Pine Sts. Lombard 1816.
English & Co., Inc.	259-61 N. Lawrence St. Market 313.
Entwistle Bros.	413 Cherry St Market 4999.
Eplett, John T.	1931 W. Tioga St. Tioga 4340.
Epstein, J.	210 Dickinson St. Dickinson 6070.
Excelsior Cornice Works	1926 S. Colorado St. Dickinson 2750.
Fairmount Roofing Co.	7th and Spring Garden Sts. Market 3816.
Ferry, N. A.	2512 Gray's Ferry Road Dickinson 2570.
Fluck, Fred	248 N. 8th St. Walnut 4991.
Flynn, Chas. P.	2236 W. Montgomery Ave. Diamond 5258W.
Fogel, Barnett	642 N. 54th St. Belmont 5930.
Fossett, Geo. W., & Son	10 N. Vogdes St. Belmont 4558.
Foster, Benj., Co.	20th and Venango Sts. Tioga 4556. Park 1340.
Fow Mfg. Co., Inc.	123 N. 2nd St Market 307 Main 2166.
Fox, Andrew G.	802 Watkins St. Dickinson 1454.
Frey, G.	1250 N. 10th St. Poplar 5122.
Frick, Harry	6009 Chestnut St. Belmont 557.
Fuchs, Otto J.	1625 Thompson St. Poplar 4210. Park 1590.
Gara-McGinley Co.	1708 Ludlow St. Spruce 3896. Race 444.
Garraty & Co.	1629 Ranstead St. Locust 2610. Race 3694.
Geissler, Chas. F.	3211 N. 17th St. Tioga 4262.
Gerbrick, Joseph D.	1050 N. 42nd St. Baring 8055.
Geyer, Joseph J.	2748 N. 19th St. Diamond 7166.
Giambattista, N.	1329 Ellsworth St. Dickinson 5834.
Girard Cornice & Roofing Co.	1024 Ridge Ave. Walnut 2123,
Gray, D.	1629 N. 21st St. Poplar 6403W.
Greenhalgh, James	2722 Brown St. Poplar 4867.
Griffith, Harry	8014 Frankford Ave. Holmesburg 37.
Guarantee Plumbing & Heating Co.	5627 Spruce St. Belmont 2728.
Haag, Herman A.	2769 N. Taylor St. Diamond 7408.
Haines, Geo. W.	17th and Catharine Sts. Dickinson 5936. Race 2705.
Haman Bros.	3706 Frankford Ave. Frankford 2038W.

Roofing and Sheet Metal Work---Continued

Haman, Walter .....3414 Helen St.
Frankford 1354W.
Hanna, E. W. .....886 Fallon St.
Belmont 8200.
Hansell, Geo. .....6102 Ridge Ave.
Roxboro 184.
Hart, Christopher .....Graver's Lane
Chestnut Hill 949.
Hartley, John H. .....3402 H St.
Kensington 2661.
Hartman, A. W., Jr. .....3051 N. 22nd St.
Tioga 3378.
Heckley, G. A. .....2123 N. Front St.
Kensington 3739.
Henricks, A. F., Co. .....907 Locust St.
Walnut 2099. Main 5973A.
Herman, Andrew ...Newkirk and Thompson Sts.
Poplar 4433.
Hicks, S. & J. .....1240 N. Redfield St.
Belmont 4706.
Hicks, Wm. F. .....247 N. 9th St.
Walnut 8413.
Hieb, John P. .....5440 N. Mascher St.
Wyoming 5121J.
Hofmaster, Elwood .....3634 N. 15th St.
Tioga 2952.
Holden, Harry C. .....4830 Frankford Ave.
Frankford 1360.
Howell, Joseph E. .....5510 N. Fairhill St.
Wyoming 2929.
Howlett, W., Co. .....4th and Columbia Ave.
Diamond 4257. Park 1693.
Hurlock, J. .....626 Ritner St
Dickinson 2473J.
International Cornice & Roofing Co.,
2918 Wharton St.
Dickinson 2717.
Jackes, Isaac .....210 Dickinson St.
Dickinson 6070.
Jackson, John H. .....3135 N. 15th St.
Tioga 3850.
Jacobs, Jacob .....508 N. 8th St.
Market 1586.
Jarman, Frank .....4823 N. Broad St.
Wyoming 658.
Jaspan, S. .....226 S. 2nd St.
Lombard 1112. Main 6079D.
Jeter, A. H., & Co. .....Land Title Bldg.
Locust 4657.
John, Benj. F., Co. .....1003 Race St.
Walnut 1419-1491.
Johnson, T. S., Sons Co. .....622 Cherry St.
Market 1093. Main 2198.
Jonas, Fred .....1305 N. 5th St.
Kensington 4642.
Kahn, Nathaniel A. .....1606-10 S. 8th St.
Dickinson 6850. Main 6178A.
Kane, Harry .....402 Poplar St.
Market 2093. Park 4918D.
Kasakow, A. .....1229 N. 2nd St.
Kensington 5507.
Keidel, Linsday .....2317 N. 16th St.
Diamond 4321.
Keller, Emil M. .....5718 Lansdowne Ave.
Belmont 7405.
Kelley, Joseph V. ....40th above Lancaster Ave.
Preston 4320. West 576.
Kelly, Chas. G. .....34 N. Paxon St.
Belmont 591.
Keystone Roofing Co. .....2009 E. York St.
Kensington 4291.
Kirst Bros. .....4813 Frankford Ave.
Frankford 828.
Knodel, Emil .....7 W. Girard Ave.
Kensington 955.
Knowlan, J. .....45 N. 13th St.
Locust 4743.
Kolb, Michael .....3954 N. 6th St.
Tioga 3195.
Kornbau, Herman, & Son...1600 N. Franklin St.
Diamond 5541.
Kramer, Jacob, & Son,
Howard and Cumberland Sts.
Kensington 2282. Park 727.
Kramer, S. .....4168 Poplar St.
Baring 1020J.
Krewson, Harry .....1423 N. 61st St.
Belmont 1603.

Kulzer, M. G. .....3005 N. Marshall St.
Tioga 3992.
Kunz & Henricks Co. .....907 Locust St.
Walnut 2099. Main 5973A.
Lambert, Abraham L. .....3565 Kensington Ave.
Frankford 599.
Lambert, Chas. W. .....2170 E. Cumberland St.
Kensington 1071.
Lantman, J. & G. .....19 N. 34th St.
Preston 5423.
Laurel Mfg. Co. .....627 N. 3rd St.
Market 403.
Leibowitz, Harry .....2607 N. 5th St.
Kensington 3968.
Levinson, B. .....1424 S. 6th St.
Dickinson 6027.
Lewis, H. W. .....2009 E. York St.
Kensington 4291.
Lieb, Wm. .....125 S. 60th St.
Belmont 4747.
Lieberman, Morris .....2044 Germantown Ave.
Diamond 4339.
Linck, J. Edw. .....2319 E. Sergeant St.
Kensington 1645.
Loeb, H., & Son.....33rd and Master Sts.
Poplar 1950. Park 1553.
Loeslein, A. Geo. .....1942 S. Woodstock St.
Dickinson 2814.
Lorenz, Chas. .....1018 Callowhill St.
Walnut 2129.
Lufkin & Halbkram .....2215 N. 12th St.
Diamond 1241W. Park 1368.
Luttrell, Thos. J. .....3830 Market St.
Preston 3416.
McCartney, T. J. .....1731 Christian St.
Dickinson 5920.
McCarty, Randolph J. .....1462 N. Robinson St.
Belmont 5209.
McElhiney, Jas. P. .....3616 Lancaster Ave.
Preston 3157.
McFarland-Meade Co..70th and Kingsessing Ave.
Woodland 528. West 411.
McFassel, E. M. .....4801 Woodland Ave.
Woodland 2348.
McGinley, Howard J., & Co. ....1719 Ludlow St.
Spruce 5257. Race 2144.
McGrath, John .....3167 N. 5th St.
Kensington 3628.
McGuigan, C. F. .....19th and Huntingdon Sts.
Diamond 630. Park 5082A.
McKay, Chas. F. .....3 Christian St.
Lombard 1217.
McNamee & Dwyer .....4624 Brown St.
Preston 5386W.
McNutt, C. T. .....43 E. Woodlawn Ave.
Germantown 5934. North 6598A.
McSorley, Frank J. .....113 N. 6th St.
Market 1835.
MacDonald, E. .....20 E. Mt. Airy Ave.
Chestnut Hill 842.
Maloney, John J. .....413 N. 3rd St.
Market 407.
Manlove, A. P. C. .....1931 E. Passyunk Ave.
Dickinson 2730.
Mays, A. B. .....1533 Appletree St.
Locust 4284.
Mays, Robert A. .....2352 N. 21st St.
Diamond 2495.
Mearns, J. B. .....267 S. 10th St.
Walnut 4656. Main 5904A.
Mehrer, George .....2435 N. 26th St.
Diamond 5630.
Mender, Chas. .....871 Perkiomen Ave.
Poplar 2761.
Messick, Wm. H., & Son.....1338 S. 6th St.
Dickinson 5107.
Metal Cornice & Roofing Co.,
Front and Dickinson Sts.
Dickinson 1233. Main 2855.
Metal Specialty Co. .....122 N. Franklin St.
Market 4969.
Millman, J. .....990 N. 7th St.
Market 4747.
Mitchell, S. .....3215 Germantown Ave.
Tioga 3721.
Moore, J. E., & Son.....20th and Brown Sts.
Poplar 3033.

Morrison, Andrew G. .....1619 Bainbridge St.
Dickinson 5915.
Mulholland, Francis, Roofing Co.,
Trenton and Firth Sts.
Kensington 2905.
Munro, Hugh F. .....1737 N. 5th St.
Diamond 8399. Park 262.
Murdock, John P. .....3028 Market St.
Preston 4632. West 4335D.
Murphy, Albert, Jr. .....1933 Callowhill St.
Locust 2981.
Nace, M. H. .....Lansdale, Pa.
Lansdale 420W.
Nacey, John .....7254 Paschall Ave.
Woodland 4618.
Nadel, J. .....5118 Market St.
Preston 5919.
Nagel, Fred .....1530 N. 4th St.
Diamond 1226.
Nagler Bros. .....1003 Wood St.
Filbert 4642.
National Sheet Metal & Stamping Co., Inc.,
1363 Ridge Ave.
Poplar 811.
Neiman, Warren .....1808 Adams St.
Kensington 4330.
Neverfail Sheet Metal Works....2569 Amber St.
Kensington 2690.
Norris, Wm. N. .....1911 E. Allegheny Ave.
Kensington 4229W. East 4408A.
Oberholtzer, George P. .....620 N. 58th St.
Belmont 5322.
Olney Sheet Metal & Iron Works..5510 N. 2d St.
Wyoming 1330.
Orme, Harry .....4618 Chester Ave.
Woodland 813.
Ostertag, F. E. ....5014 York Road
Wyoming 970.
Ottinger, Henry & Co. .....5408 Jefferson St.
Belmont 2260. West 4228D.
Paessler, Otto F. .....2859 N. Lawrence St.
Kensington 87W. Park 4665D.
Palmer, George W. & Son .....3512 Market St.
Baring 1542.
Palmer, Harry K. .....4029 Lancaster Ave.
Preston 5585. West 4219D.
Patterson, George .....2736 N. Front St.
Kensington 1095.
Patzl, John A. .....1420 S.52d St.
Woodland 4879.
Peirce, J. Kellar .....19th & Master Sts.
Poplar 7375W.
Priffmann, Otto A. .....806 W. Allegheny Ave.
Tioga 7284.
Piccoli, T. .....1229 S. 12th St.
Dickinson 4732W.
Pinkus, A. .....219 N. 2d St.
Market 3206.
Pototzky, I. .....1504 S. 8th St.
Dickinson 2780.
Pulvermacher, B. .....628 N. 3d St.
Market 2104
Quaker City Roofing Co. .....1033 Parrish St.
Poplar 1304.
Quinn Bros. .....Front & Diamond Sts.
Kensington 3715.
Quinn, James A. .....438 Winona St.
Germantown 3914W.
Rasche, Edw. W. .....143 W. Queen Lane
Manheim 3654.
Rauen, John F. .....1316 S. 22nd St.
Dickinson 5411.
Raynor, Hartley .....1229 Passyunk Ave
Dickinson 4471W.
Raynor, Wm. C. .....1539 W. Passyunk Ave.
Dickinson 2880. Race 5650D.
Real Est. Roofing Co. .....24th & Wallace Sts.
Poplar 1007. Race 3067.
Reed, Wm. K. & Sons .....1734 N. 13th St.
Diamond 6638. Park 4606A.
Reichert, Emil Co. .....1230 Summer St.
Spruce 350.
Renz, Charles M. .....2305 N. 2nd St.
Kensington 1235.
Reuss, Edward H. .....921 S. 46th St.
Woodland 5711.
Rhan, J. P. .....1949 N. Marvine St.
Diamond 6499W.

Roofing and Sheet Metal Work---Continued

Bell Phone.	Key. Phone.
Ruger, Louis	1603 N. 4th St. Diamond 8441. Park 9405D.
Salinger, Charles	1110 Ridge Ave. Poplar 1138. Race 784.
Saronowsky, Fred W.	1512 Polpar St. Poplar 4097.
Scally, M. P.	Sepviva & Sergeant Sts. Kensington 983.
Scharf, M.	2928 N. 22nd St. Diamond 1052 W.
Schervone, Joel	533 N. 7th St. Market 2461.
Schlotterbech, August	2824 N. Lambert St. Diamond 7391.
Schmitt, Edw. F	521 Ludlow St. Lombard 4299.
Schmukler, S. & Sons	706 S. 2nd St. Lombard 4163. Main 4912A.
Schnitzler, Charles H.	215 N. 2nd St. Market 1588. Main 870.
Schuler, Albert G.	1024 Ridge Ave. Walnut 2123. Race 3913.
Schueler, Henry G.	1536 E. Susquehanna Ave. Kensington 4180.
Schuelke, A. J.	2631 W. Huntingdon St. Diamond 6602J.
Schwartz, J. I.	125 S. 60th St. Belmont 4747.
Schweiker, Wm. G. Sons, Inc.	2623 Jefferson St. Poplar 4270. Park 770.
Schwickerath, Chas. F.	524 W. Girard Ave. Market 1813.
Searle, Charles P.,	722 S. 16th St. Dickinson 5935.
Seybert, Henry G.	1007 Christian St. Walnut 4337
Shannon, Wm. M.	1710 Federal St. Dickinson 323. Race 5554D.
Sheer, J.	1821 S. 4th St. Dickinson 5657W.
Shinfield, J. B.	633 Dickinson St. Dickinson 917.
Sidebothom, Harry	Dickinson & Ringgold Sts. Dickinson 5403W.
Silversein, Louis	773 S. 3rd St. Lombard 2489.
Simpson & Murray	1719 Christian St. Dickinson 5928. Race 5509D.
Smith, Jos. A.	5134 Spruce St. Belmont 7467.
Smith, Jos. W. G.	2517 Memphis St. Kensgtn. 3258.
Smollock, J. A.	Warnock & Porter Sts. Dickinson 1570.
Sobel, H.	1004 S. 2nd St. Lombard 1311.
Solomon, Jacob	209 Popular St. Market 185.
Solomon, Morris	620 N. 3rd St. Market 441.
Solomon, Sam	3rd & Lombard Sts. Lombard 3610.
Standard Roofing & Sheet Metal Co.,	2945 Ridge Ave. Diamond 943.
Standard Sheet Metal Works	255 N. Juniper St. Locust 4546.
Steelorafter, The	221 N. 23rd St. Spruce 4537.
Stern Sheet Metal Works	1006 Vine St. Filbert 2644.
Street, A. J.	931 N. 50th St. Belmont 7029.
Summit Repair Shop,	541 Carpenter St. Germantown 4937.
Sutton, J. & G.	2124 E. Chelten Ave. Oaklane 1615.
Swartz, Nicholas	6139 Market St. Belmont 2270.
Swink & Burke	5215 Woodland Ave. Woodland 1632.
Sibel, Elvin R.	541 Carpenter St., Gtn. Germantown 4937.
Taicher, L.	5801 Master St. Belmont 607.
Taylor, Frank W. & Son	259 S. 4th St. Lombard 3510. Main 5948A.
Thompson, Wm. J. & Son	108 Arch St. Market 1788.
Thorn, J. S. Co.	20th & Allegheny Ave. Tioga 8532. Park 1460.
Tinnerman & Co.	60th & Arch Sts. Belmont 620. West 347.
Tinney, Walter H. Co.	Farrels Ab. Woodland Ave. Woodland 938. West 344.
Toggweiler, Henry	3120 Ridge Ave. Diamond 1055.
Trout, Fred. G.	620 N. 42nd St. Preston 2967.
United Cornice Works	1233 Olive St. Park 115.
Wackerman, Albert	859 Church Lane. Germantown 402.
Wahl, Charles	1635 N. 22nd St. Poplar 2754.
Wahl, Geo. E.	3935 Lancaster Ave. Baring 956.
Walters, Purks & Mellon	4417-21 Ludlow St. Preston 2186. West 520.
Ward, Wm. E.	1515 W. Cumberland St. Diamond 1066.
Watson, H. J.	3413 Germantown Ave. Tioga 5563.
Weiner, Samuel	2124 N. 16th St.
Welsh, P. J.	1121 S. 20th St. Dickinson 2760.
Werner, August J.	7th & Lycoming Ave. Tioga 2769.
Wilhelm's, Theo. Sons	128 N. 16th St. Spruce 1627.
Williams, Ralph	25th & Montgomery Ave. Diamond 4683.
Williams, Robert C.	1913 Columbia Ave. Diamond 733.
Wippert, Alex.	7th & Spring Garden Sts. Market 3816.
Woods, Thos. J.	1212 S. 15th St.
Woodward, N. J.	3000 W Cumberland St. Diamond 994.
Yaris & Yanoff,	2112 S. 8th St. Dickinson 836W.
Yeager, John A. Jr.	401 Diamond St. Kensgtn. 4338.
Young, Albert E.	1625 Margaret St. Frankford 1738W.

Roofing Materials.

ROOFING MATERIALS of all Kinds:---

Pitch, Slag, Tin, Galvanized and Black Iron

All kinds of prepared Roofing Paper and Roofers' Accessories

American Tin & Terne Plate Co.

24th AND VINE STREETS
Philadelphia

Bell Phone. Locust 165 — Keystone Phone, Race 2171

Acme Tin Plate & Roofing Supply Co. 2325 Germantown Ave. Diamond 8530.
American Insulation Co. Roberts & Stockley Sts. Tioga 8700. Park 335.
American Tin & Terne Plate Co. 2400 Vine St. Locust 165. Race 2171.
Asbestos Protected Metal Co. Real Estate Trust Bldg. Spruce 582. Race 1377.
Barrett Co., The 36th & Grays Ferry Road Dickinson 6040. Race 4100.
Berger Bros. Co. 229 Arch St. Market 1551. Main 2030.
Certainteed Products Corp. Stock Exchange Bldg. Spruce 5431.

Roofing Materials—Continued.

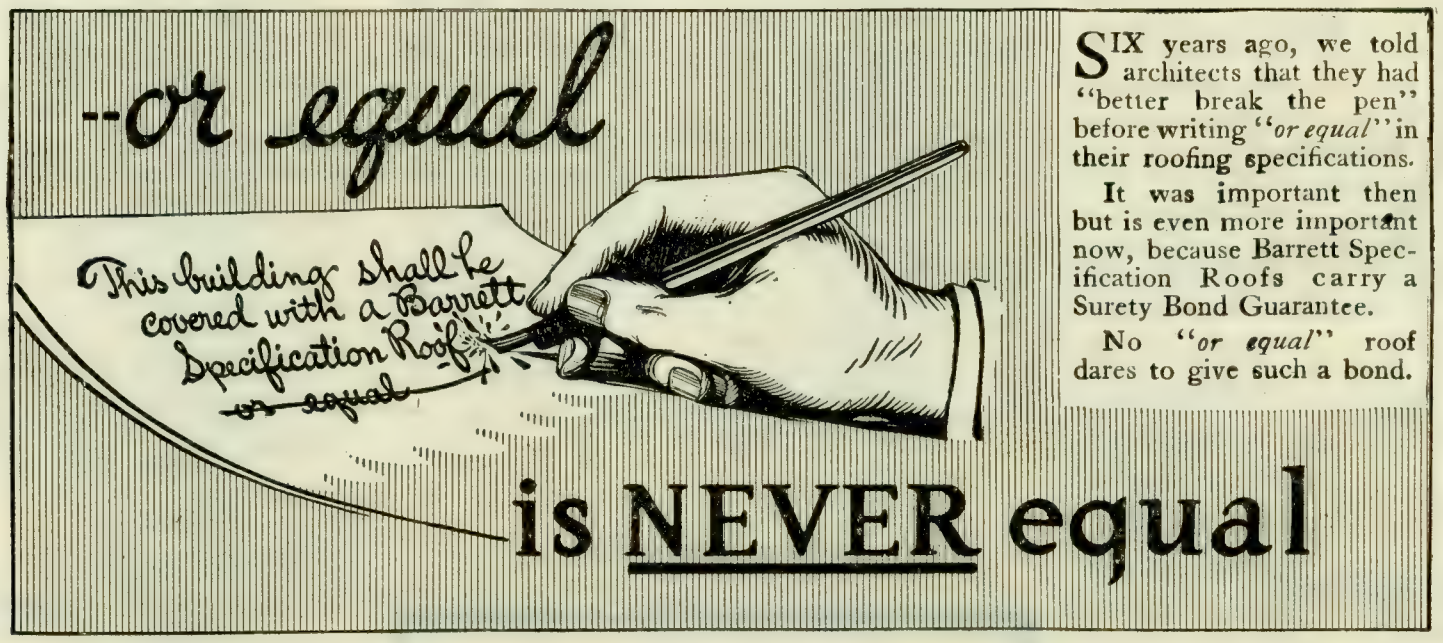
Bell Phone.	Key. Phone.
Cortright Metal Roofing Co.	50 N. 23rd St. Locust 913. Race 698.
Ehret Roofing & Mfg. Co.	Drexel Bldg. Lombard 399. Main 2398.
France, David Co.	Tasker St. Wharf Dickinson 1513. Main 1665.
Garrett, C. S. & Sons Co.	3651 Market St. Baring 1070.
Gummey-McFarland & Co	147 N. 10th St. Filbert 2478. Race 3830-31.
Hall & Carpenter	518 Race St. Market 4100. Main 671.
Johns-Manville, W. H. Co.	210 N. Broad St. Locust 1152. Race 4200.
Keasby & Mattison Co.	1927 Market St. Spruce 976. Race 671.
Kimes, J. B. & Co.	24th & Callowhill Sts. Locust 673. Race 611.
Merchant & Evans Co.	2035 Washington Ave. Dickinson 60. Race 600.
Penn Metal Co., Inc	25th & Wharton Sts. Dickinson 4600.
Phila. Roofing Supplies Co.	1625 Thompson St. Poplar 4210. Park 1590.
Phila. Slag Roof Co.	Penna. Bldg. Locust 463 Race 1624.
Roofing Supplies Co.	1736 N. 19th St. Diamond 5394. Park 1692.
Rowe & Jonathan	12th & Washington Ave. Dickinson 1420. Race 2708.
Stelwagon Mfg. Co.	19th & Washington Ave. Dickinson 670. Race 910.
Stowell Mfg. Co.	Bourse Bldg. Lombard 1985.
Utilities Co.	4936 N. 6th St. Wyoming 334.
Warren-Ehret Co.	36th & Grays Ferry Road Dickinson 6040. Race 4100.
Whitaker, Glessner Co.	1234 Hamilton St. Poplar 2617. Race 3994.

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H. S. Hood
Keith's Theatre Building
Philadelphia

Roofing Materials---Continued



SIX years ago, we told architects that they had "better break the pen" before writing "*or equal*" in their roofing specifications.

It was important then but is even more important now, because Barrett Specification Roofs carry a Surety Bond Guarantee.

No "*or equal*" roof dares to give such a bond.

IN writing your roofing specifications it is important *not* to add the loophole phrase "*or equal.*"

An "or equal" Specification puts the honest contractor at a disadvantage and leaves the way open for any less scrupulous bidder to "skin the job" by using inferior materials and construction.

If you will write into your roofing specification simply this—"The roof shall be laid according to The Barrett Specification dated May 1, 1916, and the roofing contractor shall secure for me the (20- or 10-Year) Surety Bond therein mentioned," you will be assured of several important things—

First—You will have the benefit of competitive bidding, on an equal basis, among roofing contractors.

Second—You will receive the Barrett Inspection Service *without charge.*

Third—Your roof will be guaranteed by a Surety Bond to be free from maintenance expense for the guaranteed period.

Fourth—You will have a roof for which there is positively no "or equal."

The Surety Bond Guarantee

The Surety Bond is offered on all Barrett Specification Roofs of fifty squares or more in all cities of 25,000 or over, *and in smaller places where our Inspection Service is available.* It is issued by the U. S. Fidelity and Guarantee Company, and exempts the owner from all maintenance expense for the life of the Bond.

Our only stipulations are that the Barrett Specification dated May 1, 1916, shall be strictly followed and that the roofing contractor shall be approved by us and his work subject to our inspection.

These roofs take the base rate of insurance and cost less per year of service than any other type of "permanent" roof.

Important Notice

The Barrett Specification 20-Year Bonded Roof represents the most permanent roof-covering it is possible to construct, and while we bond it for twenty years only, we can name many buildings carrying this type of roofing that have been in service over forty years and are still in good condition.

For those who desire a lighter and less expensive roof covering, we recommend the *Barrett Specification 10-Year Bonded Roof.*

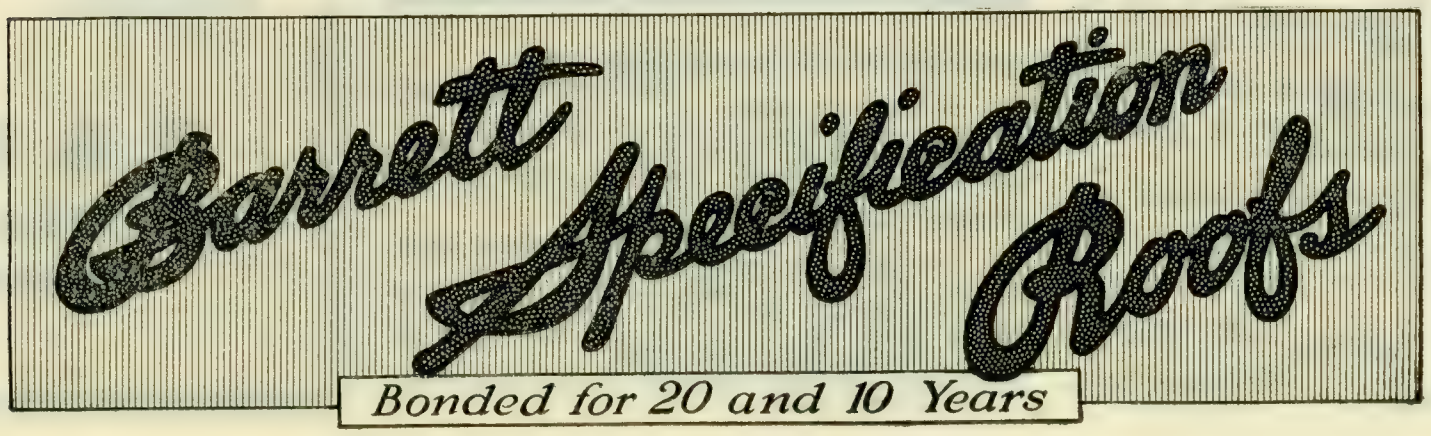
Both roofs are built of the same high-class waterproofing materials, the only difference being the amount used.

Full details regarding these Bonded Roofs and copies of The Barrett Specification sent free on request.

The Barrett Company

New York	Chicago	Philadelphia
Boston	St. Louis	Cleveland
Cincinnati	Pittsburgh	Detroit
New Orleans	Birmingham	Kansas City
Minneapolis	Dallas	Nashville
Syracuse	Seattle	Peoria
Atlanta	Duluth	Salt Lake City
Bangor	Washington	Johnstown
Lebanon	Youngstown	Milwaukee
Toledo	Columbus	Richmond
Latrobe	Bethlehem	Elizabeth
Buffalo	Baltimore	

THE BARRETT CO., Limited: Montreal Toronto Winnipeg Vancouver St. John, N. B. Halifax, N. S. Sydney, N. S,



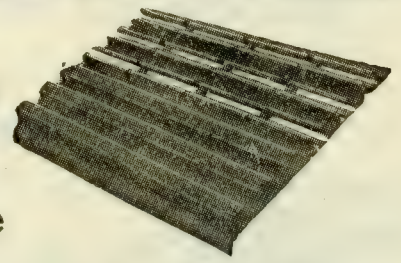
Safety Treads.

UNIVERSAL SAFETY TREAD

Absolutely NON-SLIP at all stages of its wear

This is peculiar to the Universal Safety Tread, the feature that makes it superior to other Stair Treads. From the time of its installation until it is entirely worn out, it presents a continuous surface of Lead, **absolutely non-slipping.**

For Wood Iron Concrete Stairs



Treadplate BEFORE and AFTER LEAD is rolled in

Branch Office

R. R. Hammond & Co.

Widener Bldg., Philadelphia

Bell Phone, Walnut 4084

Bell Phone.	Key. Phone.
American Mason Safety Tread Co.	Widener Bldg. Walnut 4095.
Baily, R. M. Co.	Commercial Trust Bldg. Spruce 566.
Hammond, R. R. & Co.	Widener Bldg Walnut 4084.

Sand and Gravel.

(See also ("Building Materials")

Sand & Gravel

Brick

Roofing Tile

Slate

A.S. BAIRD

Builders' Exchange

Bell Phone Market 2443 — Keystone Phone Main 1525

Sand and Gravel—Continued.

Bell Phone.	Key. Phone.
Baird, A. S.,	303 Builders Exchange Market 2443 Main 1525
Brenan Sand Co.,	121 S. 3rd St. Lombard 4271 Main 5120
Buchholz, T. B.,	1420 Chestnut St. Spruce 3987
Clear Run Gravel Co.,	2027 N. 22nd St. Diamond 5840
Cumberland Sand Co.,	Widener Bldg. Walnut 5768
Curtis & Hill Gravel & Sand Co.,	Commercial Tr. Bldg. Spruce 4754
DeFrain Sand Co.,	Beach & Berks Sts. Kensgton. 180 East 180
Delaware River Products Co.,	Ontario St. Wharf Kensgtn. 126 East 464
Doughten, Isaac, Jr.,	41 S. 15th St. Spruce 241
Eastern Sand Co.,	Mariners & Merchants Bldg. Lombard 159 Main 1851
Fairland, P. H. Co.,	115 S. 30th St. Preston 4537-38 West 184
France, David Co.,	Tasker St. Wharf Dickinson 1513 Main 1665
Frankford Coal & Lime Co.	4430 Penn St. Frankford 125 East 212
Gilbert, Harry W.,	9th & Venango Tioga 4712 Park 1036
Goff, Daniel Co.,	Drexel Bldg. Lombard 1953
Jarden, W. A. & Co.	55th & Lancaster Ave. Belmont 321 West 4696A
Knickerbocker Lime Co.,	Finance Bldg. See ad Page Spruce 2913 Race 1512
Knickerbocker Lime Co.,	364 N. 24th St. See ad Page Locust 200 Race 500
Lotz, F. C.	American & Dauphin Kensington 2250 Park 904
Monaghan, Wm. F.,	Opal St., S of Church St. Gtn. 2678
Newton Supply Co.,	30th & Chestnut Sts. Preston 2343 West 543
National Dredging & Lighterage Co.,	N. Amer. Bldg. Walnut 6627 Race 1406
Norcross & Edmunds,	Penn Sq. Bldg. Spruce 3891 Race 1718
North East Bldrs Supp Co.,	2nd & Fishers Ave. Wyoming 463
Patterson, Robt. & Son,	Cherry St. Wharf Schuylkill River Locust 917 Race 718
Penn Sand & Gravel Co.	207 S. 9th St. Walnut 626 Main 2275
Pettinos, Charles E.	Abbott Bldg. Locust 1741 Race 594
Pettinors, Geo. F.,	Real Estate Trust Bldg. Walnut 4402 Race 1770
Phila. Transportation & Lighterage Co.,	119 Walnut St. Lombard 178 Main 228
Pine Valley Sand Co.,	Real Estate Trust Bldg. Walnut 3121
Rutan, John W.,	1505 Arch St. Locust 4276
Sanders, W. T. C.,	Witherspoon Bldg. Walnut 4541
Sidley Silicia Sand Co.,	Widener Bldg. Walnut 345
South & Craven,	N. American Bldg. Walnut 6627 Race 1406
Superior Sand & Gravel Co.,	1420 Chestnut St. Spruce 3987
Van Brunt Sand Co.,	Penna Bldg. Spruce 1856 Race 120
Wagner, H.	1120 Frankford Ave. Kensgtn. 5199
West Jersey Sand & Supply Corp.,	Beach & Marlborough Sts. Kensgtn. 2016 East 595

Sash Pulleys.

American Pulley Co. .....4200 Wissahickon Ave. Tioga 6980. Park 1470.

Sash Weights.

Brown E. E. & Co. Inc. ..McKean & Meadow Sts. Dickinson 1511. Main 222.

Phila. Sash Weight Works, E. of Lewis& Ashland Sts. Frankford 1537. East 430.

Screens.

Bell Phone.	Key. Phone.
A B C Screen Co.	1415 Germantown Ave. Kensgtn. 1502. Park 496.
Baker, W. J. Co.	2118 Diamond St. Diamond 900.
Botts, E. G.	5208 Chestnut St. Belmont 9092.
Browne, James L.	2132 N. 16th St. Diamond 3637.
Burrowes, E. T. Co.	Real Estate Trust Bldg. Filbert 4627. Race 1059.
Duer, F. L.	1615 Sansom St. Spruce 3383.
Ellis, Harvey	Perry Bldg. Spruce 5240
German, W. L.	226 N. Peach St. Belmont 6612W.
Higgin Mfg. Co.	Lincoln Bldg. Walnut 2283. Race 5989A.
Horst Mfg. Co.	2650 Callowhill St. Locust 2040. Race 5400A.
Jackson Screen Co.	10th & Tioga Sts. Tioga 4199.
Jamestown Window Screen Co.	1414 S. Penn Sq. Spruce 3818.
Johnston, Geo. R. C.	Drexel Bldg. Lombard 3693.
Malia, Thos. J.	141 Wentz St. Wyoming 1352.
Moffett, John Screen Co.	1824 S. 10th St. Dickinson 1323.
Monaghan, Thos. B.	2009 Sansom St. Locust 1343.
New York Screen Co.	146 N. 3rd St. Market 581.
Otto, A. L. Co.	Land Title Bldg. Locust 248.
Phila. Screen Mfg. Co.	56th bel. Woodland Ave. Woodland 2357. West 51.
Quay & Co.	3020 N. 26th St. Diamond 8656W.
Robbins Mfg. Co.	1615 Sansom St. Spruce 3383. Race 2330.
Roebuck, S. Co.	3126 N. 25th St. Diamond 6014J.
Standard Screen Co.	Lincoln Bldg. Walnut 2283.
Stein-way Mfg. Co.	212 N. Darien St. Walnut 6677.

Sewer Pipe.

(See also Terra Cotta, etc.)

On The Ground When Wanted

SEWER PIPE

Wm. H. Clausen

Bell Phone, Diamond 608 — Keystone Phone, Park 837

See Page 321

Sheet Metal Work.

(See Roofing & Sheet Metal Work)

Shingles (Asbestos).

Bell Phone. Key. Phone.

American Insulation Co. ...Roberts & Stokley
Tioga 8700. Park 335.
Keasbey & Mattison Co. .....1927 Market St.
Spruce 976. Race 671.
Manville Co., H. W. Johns.....210 N. Broad St.
Locust 1152. Race 4200.

Skylight, Cornice and Ventilator Manufacturers.

Berger Bros. .....229 Arch St.
Market 1551. Main 2030.
Bohem, A. & G. .....15th & Federal Sts.
Dickinson 463. Race 2935.
Brown, Jos. E. Co. .....1003 Race St.
Walnut 1419. Race 318.
Lupton, David Sons Co.
Allegheny Ave. & Tulip St.
Kensington 1690. East 21.
McFarland-Meade Co. ...70th & Kingsessing Ave.
Woodland 528. West 411.
Merchant & Evans Co. .....2035 Washington Ave.
Dickinson 60. Race 600.
Penn Metal Co. .....25th & Wharton Sts.
Dickinson 4600. Race 1581.
Royal Ventilator Co. .....415 Locust St.
Lombard 2397. Main 2997.
United Cornice Works .....1233 Olive St.
Tioga 8532 Park 1460.
Thorn, J. S. & Co. .....20th & Allegheny Ave.
Park 115.
Wayne Junction Metal Cornice Co.
4545 Wayne Ave.
Wyoming 3266. North 116.

Siding.

(See Metal Roofing & Siding)

Slate.

Baird, A. S. .....Builders' Exchange
Market 2443. Main 1525.
Boudwin, Howard .....1525 Ridge Ave.
Poplar 934.
Emack, John D. Co., The.....112 S. 16th St.
Spruce 5420. Race 3058.
Henery Co., E. P.....1506 Sansom St.
Spruce 1502. Race 3246.
Moore, Wm. Co. .....1506 Sansom St.
Spruce 1502. Race 3246.
Peacock, George R. .....1111 Vine St.
Filbert 4295. Race 5780D.
Structural Slate Co. .....Perry Bldg.
Locust 2502.
Wafer, Wm. A. .....1245 Ridge Ave.
Poplar 1844.

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Stained and Art Glass.

Bell Phone. Key. Phone.

Artifex Studio, ...322 N. 5th St.
Market 4220.
Callanan, Martin .....421 N. 19th St.
Locust 2443.
Century Stained Glass Works, (Ltd.)
212 S. 11th St.
Filbert 3817. Race 5689D.
Columbia Stained Glass Wks. ....866 N. 10th St.
Poplar 5656. Park 5009A.
D'Ascenso Studios, ...1608 Ludlow St.
Spruce 2939.
Decorative Glass Co. .....3248 Chestnut St.
Baring 962.
Gray, John P. .....2217 Chestnut St.
Spruce 1794.
Hawkins, Thos. .....3840 Germantown Ave.
Tioga 4502.
Keystone Art Glass Co.....333 N. 5th St.
Market 3626. Main 5945A.
Kolb & Martin, ...934 N. 13th St.
Poplar 3986. Park 4964D.
Matthews, Edwin C. .....2321 Ridge Ave.
Diamond 9189.
Newell, James M. .....4952 Old York Road.
Wyoming 2056.
Oesterle, Fred J. .....327 N. 11th St.
Walnut 678. Race 2087.
Potts, Ellwood .....5438 Market St.
Belmont 4375.
Quaker City Stained Glass Works,
224 N. 4th St.
Market 320.
Reeves, Elmer Co. .....3525 York Road.
Tioga 3928W.
Roberts Stained Glass Works,
4324 Lancaster Ave.
Preston 3511.
Roeschen, Wm. A. .....1224 N. 10th St.
Poplar 2861.
Smith, H. J. & Sons .....236 S. 8th St.
Walnut 108.
Weeder, F. E. .....34 S. 16th St.
Locust 2185.
West Phila. Art Glass Works 4219 Market St.
Preston 4979.
Willet Stained Glass & Decorating Co.
7902 Lincoln Dr.
Chest. H. 837.

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Mahogany

One Stair or
One Hundred

Chas. F. Felin & Co.
Incorporated
Old York Road & Butler St.
Philadelphia

Stair Builders—Continued.

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Dickinson 573.
Burrows, H. H. & Co. .....3821 Baring St.
Preston 3186.
Felin, Chas. F. & Co. Inc.
York Road ab. Butler St.
Tioga 3460. North 1.
Gerry, Fred'k. K. Co. The .....1835 Market St.
Dickinson 874. Race 1166.
Greene, Edw. A. & Co. .....2637 W. Hagert St.
Diamond 5120. Park 677.
Lloyd, Richard R. Co. .....107 N. 22nd St.
Locust 1191. Park 861.
Snedaker, Frank C. & Co. .....9th & Tioga Sts.
Tioga 3810-11. Park 203.
Wilson, John J. .....2927 Ellsworth St.
Dickinson 550. Race 3525.

Steam Specialties.

Anderson, V. D. Co. .....537 Race St.
Market 3255.
Apeldorn & Beatty Co. .....155 N. 9th St.
Walnut 1168. Main 1664.
Baker-Dunbar-Allen Co....Stock Exchange Bldg.
Spruce 5490. Race 1599.
Bickel, Fred. L. ....Mascher & W. Jefferson Sts.
Park 4744A.
Bishop, John .....1514 Vine St.
Locust 4964.
Bundy Steam Trap Agcy. .....Penna. Bldg.
Spruce 5830.
Coutts, Jas. A. .....Bourse Bldg.
Lombard 490.
Crane Co., Steam Supplies .....245-47 Master St.
Kensington 5450. Park 960.
DeGroot, L. P. .....Crozer Bldg.
Spruce 2155.
Diamond Specialty & Supply Co....1225 Arch St.
Spruce 428. Race 1585.
Direct Separator Co. ....2528-38 N. American St.
Park 908
Dorsey, Jos. M. Co. .....Lincoln Bldg.
Filbert 2564.
Eagan & Beahm, Inc. .....Stephen Girard Bldg.
Filbert 2623. Race 918.
Elliott Co. .....Penna. Bldg.
Spruce 4097.
Fairbanks Co., The .....7th & Arch Sts.
Market 2210. Main 1715.
Fennell, J. T. .....3rd & Arch Sts.
Market 4300.
Fleck Bros. .....44-50 N. 5th St.
Market 1655. Main 2630.
Ford & Kendig Co. .....1428 Callowhill St.
Spruce 5310. Race 5030.
Foster Eng. Co. .....Harrison Bldg.
Spruce 4953.
Haines Selling Co. .....1711 Sansom St.
Spruce 480.
Hamilton, Jas. S. Co. .....149 N. 7th St.
Market 176. Main 2705.
Harrison Safety Boiler Works
17th bel. Allegheny Ave.
Tioga 2146. Park 846.
Horner, Wm. W. .....54 N. 2nd St.
Market 2985.
Huyette, Paul B. Co., Inc. .....5 S. 18th St.
Locust 2975. Race 3259.
Jost Bros. .....4817 Germantown Ave.
Wyoming 3032.
Johnson Service Co. .....1521 Sansom St.
Spruce 2713. Race 1761.
Keystone Supply & Mfg. Co.....927-35 N. 9th St.
Market 4135. Park 1120.
Kiely Steam Spec. Agc. .....810 Race St.
Filbert 5458. Main 3305.
Koons, E. W. & Co. .....911 Filbert St.
Filbert 2813. Race 1831.
Lewis Steam Specialty Valve Co...1533 Cherry St.
Spruce 5338. Race 2819.
Lonergan, J. E Co.....211 15 Race St.
Market 2052. Main 324.
McArdle & Cooney .....519 Arch St.
Market 962. Main 2970.
McCullam & Co. .....827 Arch St.
Filbert 4740. Main 3331.
Middleton Supply Co. .....Widener Bldg.
Walnut 1936.
Miller, Charles J. Co. .....1225 Columbia Ave.
Diamond 4840. Park 244.
Morehead Mfg. Co. .....136 Chestnut St.
Lombard 3758.
Murphy, H. F. & Co. .....1615 Sansom St.
Spruce 4201. Race 422.

Steam Specialties—Continued.

Bell Phone.	Key. Phone.
Paine, Leonard	710 Witherspoon Bldg. Walnut 813. Race 2323.
Pitts & Kitts Mfg. & Supply Co.	1314 Ridge Ave. Poplar 2076.
Plant Eng. & Equipment Co.	1503 Sansom St. Spruce 4564. Race 466.
Reliance Eng. Co.	1524 Chestnut St. Spruce 812.
Ross Mechanical Supply Co.	Drexel Bldg. Lombard 2711.
Royal Ventilator Co.	415 Locust St. Lombard 2397. Main 2997.
Rue Mfg Co.	228 Cherry St. Market 1607.
Sarco, Co., Inc.	Drexel Bldg. Lombard 3564. Main 1658.
Schade Valve Mfg. Co.	2528 N. American St. Kensington 672. Park 908.
Strong, Carlisle & Hammond Co.	1514 Vine St. Locust 4964.
Watson & McDaniel Co.	146 N. 7th St. Market 1889. Main 2318.
Webster, Warren & Co.	Stephen Girard Bldg. Filbert 2623. Race 918.
Wright-Austin Co.	1428 Callowhill St. Spruce 5310

Steel.

(See Iron and Steel)

Steel Casements.



INTERNATIONAL CASEMENTS

Representatives

F. J. WILSON CO.

Land Title Bldg., Philadelphia

Bell, Locust 2313 Keystone, Race 177

International Casement Co.	1416 Land Title Bldg. Locust 2312. Race 177.
Wilson, F. J. Co.	Land Title Bldg. Locust 2312. Race 177.

Steel Sash.

ROCA SOLID STEEL SASH

THE BOGERT & CARLOUGH CO.
Paterson, N. J.

SIDEWALL SASH
MONITOR SASH
STEEL PARTITIONS
POWER HOUSE SASH
TUBULAR STEEL DOORS
MECHANICAL OPERATORS

Send for Sash Catalogue, D 20

F. J. Wilson Co.
1416 Land Title Bldg.

Bell Phone, Locust 2313 Keystone Phone, Race 177

Bell Phone.	Key. Phone.
Bogert & Carlough Co.	1416 Land Title Bldg. Locust 2312. Race 177.
Detroit Steel Products Co.	Land Title Bldg. Locust 3677. Race 3615.
Lupton's David Sons Co.	Allegheny Ave. & Tulip St. Kensgtn. 1690. East 21.
McFarland-Meade Co.	70th & Kingsessing Ave. Woodland 528. West 411.
Thorn, J. S. & Co.	20th & Allegheny Ave. Tioga 8532. Park 1460.
Truscon Steel Co.	Commonwealth Bldg. Walnut 660. Race 3472.
Wilson, F. J. Co.	Land Title Bldg. Locust 2312. Race 177.

Stone (Cut).

(See also Granite, Marble and Cut Stone.)

Bolger, John J.	1835 Ludlow St. Spruce 4958.
Brogan, John J.	48th & Lancaster Ave. Belmont 4885.
Copeland, Hugh & Sons	24th & Washington Ave. Dickinson 651.
Cravero, Nicholas,	1633 W. Somerset St. Diamond 8522.
Desiatto, Frank,	527 W. Butler St. Tioga 2783.
D'Lauro, John	55 Mermaid Lane. Chest. H. 227.
Dodds, John A.	2929 Ellsworth St. Dickinson 764. Race 2092.
Dolan, T. & J.	314 S. 24th St. Locust 1165.
Donato, Frank,	1423 S. 8th St. Dickinson 6474.
Drew, Wm. G. & Son	6349 Chew St. Germantown 1001.
Germantown Cut Stone Co.	Pulaski & Rittenhouse Sts. Germantown 5930.
Gray, Wm. & Sons Co.	30th bel. Walnut St. Preston 2369. West 173.
Hagan, John	Comly ab. Delaware Ave. Frankford 326. East 5.
Hastings & Morrison,	1510 Washington Ave. Dickinson 922. Race 2207.
Italian Art Monumental Works	1306 S. 9th St. Dickinson 7157.
Law & Burwell	Union & Ogden Sts. Preston 2521. West 535.
MacMillan, Henry	19th above Thorps Lane. Germantown 5887.
Maxwell's, John Sons	30th bel. Spruce. Preston 2304. West 84.

Stone (Cut)—Continued.

Bell Phone.	Key. Phone.
Morrill, B. F.	Mutual Life Bldg. Filbert 4663W.
Morrison, Michael	1209 S. Broad St. Dickinson 2112.
Ridgway, B. & Son	9th & Columbia Ave. Diamond 1272.
Shea & Donnelly Co.	Penfield Bldg. Walnut 1582.

Stone (Crushed).

(See also Building Materials.)

Bethayres Stone Co.	Parkway Bldg. Locust 4270.
Birdsboro Stone Co.	Land Title Bldg. Locust 4587. Race 1092.
Blue Bell Lime & Stone Co.	Commercial Trust Bldg. Locust 3598.
Costigan, Jas.	5524 Morton Germantown 833.
Dolan, T. & J.	314 S. 24th St. Locust 1165.
Foxcroft Stone Co.	4506 Regent St. Woodland 1400.
Gucker Bros.	Prospect Ave. Chest. H. 2.
Harrison, R. C. & Co.	3rd & Allegheny Ave. Kensgtn. 818.
Holmesburg Granite Co.	Commercial Trust Bldg. Spruce 2171.
Kenderdine, Jos. R.	200 N. 3rd St. Market 456. Main 4410.
Lavino E. J. & Co.	Builitt Bldg. Lombard 147. Main 4396.
Onondaga Litholite Co.	1505 Arch St. Locust 619.
Pennington Trap Rock Co.	1539 Filbert St. Spruce 3870.
Phila. Stone & Supply Co.	Real Estate Trust Bldg. Filbert 2835.
Quinn, Jos. P.	30th & Thompson Sts. Poplar 545. Race 5724D.
Scranton, George E.	Witherspoon Bldg. Filbert 3620.
Trimble, Bros.	D & Erie Sts. Kensgtn. 1725.

Stone (Yards and Quarries).

Avondale Limestone Quarry Co.	2302 Spruce St. Locust 1917.
Bethayres Stone Co.	Parkway Bldg. Locust 4270.
Birdsboro Stone Co.	Land Title Bldg. Locust 4587. Race 1092.
Blue Bell Lime & Stone Co.	Commercial Trust Bldg. Locust 3598.
Costigan, James,	5524 Morton St. Germantown 833.
Delaware River Quarry & Const. Co.	Commercial Trust Bldg. Spruce 2401.
Doughten & Son.	44 S. 13th St. Spruce 241.
Dyer, John T. Quarry Co.	Harrison Bldg. Spruce 2514. Race 2539.
Formigli Architectural Stone Co.	Widener Bldg. Walnut 5434.
Foxcroft Stone Co.	4506 Regent St. Woodland 1400.
General Crushed Stone Co.	N. American Bldg. Walnut 3455. Race 567.
Hagan, John & Co.	Comly & Delaware River. Frankford 326. East 5.
Harrison, R. C. & Co.	3rd & Allegheny Ave. Kensgtn. 818.
Holmesburg Granite Co.,	Commercial Trust Bldg. Spruce 2171.
Kenderdine, Jos. R.	200 N. 3rd St. Market 456. Main 4410.
Lambertville Stone Quarry Co.	1220 Filbert St. Locust 5664.

Stone Yards and Quarries—Continued.

Bell Phone.	Key. Phone.
Lavino, E. J. & Co.	Bullitt Bldg. Lombard 147. Main 4396.
Nolen, Jas. F.	64 E. Church Lane. Germantown 2817.
Onondaga Litholite Co.	1505 Arch St. Locust 619.
Pennington Trap Rock Co.	1539 Filbert St. Spruce 3870.
Phila. Stone & Supply Co.	Real Estate Trust Bldg. Filbert 2835.
Quinn, Joseph P.	30th & Thompson Sts. Poplar 545. Race 5724D.
Scranton, Geo. E.	Witherspoon Bldg. Filbert 3620.
Smalley, A. P.	Commercial Trust Bldg. Locust 3598.
Trimble Bros.	D & Erie Ave. Kensgtn. 1725.

Stone Renovating

(See Brick Front Renovating & Roofing)

Store Fixtures.

(See also Cabinet Work.)

Abramson, Fruman & Co.	615 E. Passyunk Ave. Main 5974D.
Anderson Woodworking Co.	1631 Ludlow St. Spruce 4082.
Basch & Co.	1426-36 S. Front St. Dickinson 1234. Main 4120.
Bernheim, B. & Sons Inc.	1401-5 Germantown Ave. Kensgtn. 537. Park 627.
Cherry, M.	137 N. 10th St. Walnut 3423. Race 581.
Claitman & Epstein,	927 Cherry St. Walnut 688.
Columbia Cabinet Mfg. Co.	216-18 N. 11th St. Walnut 1136.
Fogel, J. & Son	526-28 Bainbridge St. Main 5525D.
Friedland, Chas.	456-58 N. Orianna St. Main 5655D.
Geissler, Chas. C.	62 N. 4th St. Market 1316. Main 3139.
Gerry, Fred'k. R. Co. The	1835 Market St. Dickinson 874. Race 1166.
Goldentyre, F.	1445 N. Marshall St. Diamond 128.
Hughes, F. Co.	11th & Buttonwood Sts. Poplar 4342. Race 2716.
Heacock, H. F.	51 N. 2nd St. Market 3854. Main 123.
Huskey, Abraham,	Columbia Ave. & Howard St. Kensgtn. 1272.
Keystone Refrigerator Co.	1433-35-37 N. Front St. Kensgtn. 2838. East 193.
Kirchhof, J. & Co. Inc.	448 N. 12th St. Poplar 2292. Race 3199.
Kramer Woodworking Co. Inc.	4th & Lehigh Ave. Kensgtn. 3100. Park 1722.
Lancaster Store & Office Fixture Co.	3920-22 Lancaster. Preston 6680.
Love, N. & Co.	105-07-09 W. Columbia Ave. Kensgtn. 660.
Melzer, S. M. Co.	915 Filbert St. Walnut 4267. Race 3476.
Patten Furniture Co.	1127 Arch St. Locust 4070. Race 2606.
Peoples Woodworking Co.	819 N. Lawrence St. Market 126.
Phila. Show Case Co.	123 N. 13th St. Spruce 6050. Race 2044.
Prouty, L. A. Co. Inc.	1021-33 Ridge Ave. Poplar 832. Race 2798.
Raith, Julius A.	304-8 Master St. Kensgtn. 1519. Park 4738A.
Randall, R. T. & Co.	331-33 N. 2nd St. Market 3896. Main 5777D.
Ridgway Refrigerator Co.	5th & Tioga Sts. Kensgtn. 4342. Park 1042.
Rieder, Frank & Sons.	343-49 N. 4th St. Market 3360. Main 2628.
Rust, Harry R.	724-26 Ludlow St. Market 2876. Main 3533.
Sacks & Trachtenberk,	619-25-29 Passyunk Ave. Lombard 3104.

Store Fixtures—Continued.

Bell Phone.	Key. Phone.
Schuck, L.	1657 Germantown Ave. Diamond 7803.
Segall & Sons	8th & Master Sts. Market 4073. Park 1376.
Shelansky, H.	5th & Wood Sts. Market 4062.
Smith, Kline & French Co.	429 Arch St. Market 4970. Main 280.
Smith Wm. L. G. Co.	Bourse Bldg. Lombard 490.
Snader, D.	329 Bainbridge St. Main 6149A.
Sodofsky, Chas.	1435-37 N. Front St. East 193.
Sorg, H. Daniel,	Front & Montgomery Ave. Kensgtn. 704. Park 877.
Standard Refrigerator Co.	2543 Germantown Ave. Diamond 5240. Park 478.
Swift & Joseph,	157 N. 2nd St. Market 3130.
Walker Bin Co.	806 Arch St. Walnut 267.
Weiss, George Co.	1220 N. Mascher St. Kensgtn. 6497. Park 1674.
Weiswasser Bros.	1108 Germantown Ave. Market 4554.
Welch Mfg. Co.	123 N. 13th St. Spruce 6050. Race 2044.
Wilmarth Show Case Co.	123 N. 13th St.

Stoves and Ranges.

American Stove Co.	131 Market St. Market 919. Main 5656D.
Barbour, C. E. & Co.	42 N. 9th St. Filbert 5405 Race 5879D.
Barelett & Co., Inc.	1938 Market St. Locust 2665. Race 134.
Brenner's Stove Works	1650 Germantown Ave. Diamond 772.
Caskey & Keen, Inc.	6th & Berks Sts. Lombard 4712. Main 2239.
Cox, Abram Stove Co.	American & Dauphin Sts. Kensington 830. Park 771.
Dougherty, Wm. F. & Sons	925 Arch St. Filbert 3886. Race 1478.

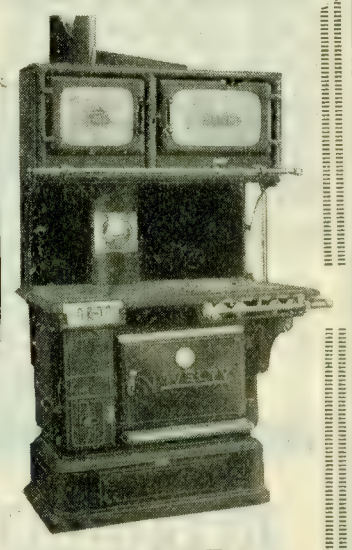
Stoves and Ranges—Continued.

Bell Phone.	Key. Phone.
Hallman, A. Stove Co.	York & Thompson Sts. Kensington 5702. East 474.
John, Benj. F. Co.	1003 Race St. Walnut 1419.
Kisterbock, J. & Son	2002 Market St. Locust 1073. Race 408.
Klein Stove Co.	700 N. Front St. Market 3879. Park 1678.
Kurtz, E. F.	43 N. 2nd St. Market 1087. Main 5953A.
Liberty Stove Co.	308 Chestnut St. Market 3879. Park 1678. Lombard 3470. Main 1074.
Long, Jas. N. Co.	2 N. 20th St. Spruce 4933.
Mahood & Co.	16 N. 2nd St. Market 2422. Main 717.
Miller, Henry M.	50 N. 2nd St. Market 996. Main 1731.
Osmond, J. H.	612 Race St. Market 1979. Main 6072A.
Phila. Gas Range Co.	13th & Arch Sts. Spruce 2250. Race 2251.
Phila. Stove Co.	1631 N. 5th St. Diamond 4700 Park 236.
Pierce, Charles H.	2120 Columbia Ave Poplar 2885.
Rathbone, Sard & Company	1342 Arch St. Locust 6684.
Reeves Stove & Foundry Co.	38 S. 2nd St. Lombard 3977. Main 4855A.
Reynolds, J. & Son	1613 Filbert St. Spruce 3649. Race 5528A.
Richardson & Boynton Co.	1332 Arch St. Locust 5726-27. Race 3690-91
Roberts & Mander Stove Co.	11th & Washington Ave. Dickinson 1365. Main 1273.
Sheppard, Isaac A. Co.	Land Title Bldg. Locust 4323. Race 657.
Spear, James Stove & Heating Co.	1823 Market St. Spruce 2470. Race 753.
Thomson, Wm.	64 N. 2nd St. Market 1414.
Tubular Heating & Ventilating Co.	232 Quarry St. Market 2654. Main 1960.
The United Gas Improvement Co.	1401 Arch St. Locust 1300. Race 30.

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Bell Spruce 3649 Keystone Race 5528A

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Bell Phone.	Key. Phone.
King, J. B. & Co.	24 S. 7th St.
Market 3848.	Main 2932.

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Bell Phone.	Key. Phone.
Conkling-Armstrong Terra Cotta Co.	Wissahickon & Juniata Sts.
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Ketcham, O. W.	24 S. 7th St.
Market 2470.	Main 1738.

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Surety Bonds—Continued.

Bell Phone.	Key. Phone.
Aetna Casualty and Surety Co.	407 Walnut St. Lombard 4230. Main 765.
American Surety Co. of N. Y.	West End Tr. Bldg. Spruce 695. Race 796.
Beidler & Bookmyer	424 Walnut St. Lombard 2947. Main 452.
Curtin & Brockie	4th and Walnut Sts. Lombard 2085. Main 4612.
Fidelity & Casualty Co. of N. Y.	Finance Bldg. Lombard 2055. Main 1650.
Hoopes, Herman, Inc.	Real Estate Trust Bldg. Filbert 5470.
Hutchinson, Rivinus & Co.	425 Walnut St. Lombard 220. Main 4300.
Latta, Harris J.	Penna. Bldg. Locust 578. Race 3432.
Maryland Casualty Co.	324 Walnut St. Lombard 5120. Main 4165.
Massachusetts Bonding Co.	411 Walnut St. Lombard 216. Main 380.
New Amsterdam Casualty Co.	Finance Bldg. Spruce 438. Race 2166.
Patton, Edward W.	Lincoln Bldg. Filbert 2939. Race 70.
Smith, Thomas B., Co.	Lincoln Bldg. Filbert 3298-99. Race 1198.
Southern Surety Co.	Penna. Bldg. Spruce 6394-95.
Stokes, Packard, Haughton & Smith.	434 Walnut St. Lombard 4190. Main 4190.
U. S. Fidelity & Guaranty Co.	Real Est. Tr. Bldg. Filbert 3931. Race 178.
Wagner, Taylor, Edson Co.	422 Walnut St. Lombard 3784. Main 4640.

Terra Cotta Sewer Pipe, Wall Coping and Flue Lining.

American Sewer Pipe Co.,	Commercial Trust Bldg. Spruce 5357
Clausen, Wm. H.	27th & Diamond Sts. Diamond 608 Park 837
East Ohio Sewer Pipe Co.	Penna Building Locust 6780
Fitzgerald, J. J. Co.	2nd & Butler Sts. Kensington 1019 Park 5385A
France, David Co.	Tasker St. Wharf Dickinson 1513 Main 1665
Lock Joint Pipe Co.	Widener Bldg. Walnut 4645
Lukens, J. Barry	Liberty Bldg. Walnut 1825 Race 398
Phila. Clay Material Co	4629 Girard Ave. Belmont 303
Robinson, Thomas & Co	Real Estate Trust Bldg. Filbert 5346 Race 2917
Stokes, Edw. C.	Harrison Bldg. Spruce 4314

Terra Cotta (Hollow Tile).

Clausen, Wm. H.	27th & Diamond Sts. Diamond 608 Park 837
Eastern Contractors Supp. Co.	Commercial Bldg. Spruce 5357
Ketcham, O. W.	Builders' Exchange Market 2470 Main 1738
Maurer, Henry & Son	Penna Bldg. Spruce 1689
National Fireproofing Co.	Land Title Bldg. Spruce 4761 Race 1691
Redi, A. S. & Co.	Morris Bldg. Spruce 646 Race 1984
Robinson, Thomas & Co.	Real Estate Trust Bldg. Filbert 5346 Race 2917
Stokes, Edw. C.	Harrison Bldg. Spruce 4314

Terra Cotta Sewer Pipes, Wall Coping, and Flue Lining---Continued

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Bell Phone. Key. Phone.

Conkling-Armstrong Terra Cotta Co., Wissahickon and Juniata Sts. Tioga 2130. Park 222.

Ketcham, O. W. .....24 S. 7th St. Market 2470. Main 1738.

Terrazzos.

(See Tile and Tile Work.)

Tiles and Tile Work.

Belfi Bros. & Co. .....1923 Market St. Locust 2518 Race 1758

Busch, Albert J. .....58th & Larchwood Woodland 319

Cianci, Vincent .....3429 Filbert St. Preston 4485 West 72

Fowler, Reuben A. .....210 Wyoming Wyoming 1359

French, Samuel H. & Co ...4th & Callowhill Sts. Market 1924 Main 1221

Glenwood Tile Co. .....1817 N. 20th St. Diamond 1560. Park 1944.

Graham, James ..... 54 E. Pastorious St. Gtn. 3010

Greenwood, John .....Louden & Rosehill Sts. Wyoming 944

Greenwood, Jos. B. .....2202 Amber St. Kensgtn. 2275

Italian Marble Mosaic Co. .....433 Spruce St. Lombard 2988 Main 534

Bell Phone. Key. Phone.

Kensington Tile Co. ..1311 E. Susquehanna Ave. Kensgtn. 943

Like Tile Agency .....18 S. 7th St. Market 3582

McClenan, Horace J., Jr. .....6237 Ridge Ave. Roxboro 1773W

McKinney & Loury .....1826 S. 55th St. Woodland 2975

Montgomery, David A. .....6006 Market St. Belmont 2738 West 4634A

Moore, Wm., Co. .....1506 Sansom St. Spruce 1502 Race 3246

Myers, Jos. H. .....1817 N. 20th St. Diamond 1560 Park 1554

National Tile & Mosaic Co. ...1730 Sansom St. Locust 393 Race 3547

Ostendorf, W. G. .....2923 N. Broad St. Tioga 4327

Phila. Tile & Mosaic So. 184 E. Willow Grove Ave. Chest. H. 1141

Roman Mosaic & Tile Co. .....435 Green St. Market 3158 Main 174—2763

Sloan, Wesley .....2009 Market St. Locust 443 Race 3022

Suddards, C. A. .....1723 Chestnut St. Locust 1064

Tioga Tile Co. .....3301 N. 21st St. Tioga 5966W

Vuillermet Bros. .....1025 Passyunk Ave. Filbert 2810W

Wafer, Wm. A. .....1245 Ridge Ave. Poplar 1844

Watts, Chas. W. .....3301 N. 21st St. Tioga 5966W

Watts, Wm. H. & Co .....37 S. 16th St. Spruce 4463 Race 1853

Williamson & Messinger .....2730 N. Broad St. Tioga 4503 Park 284

Winkler, Geo. P. .....1120 Chestnut St.

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Bell Phone, Lombard 2988 Keystone Phone, Main 534

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Bell Phone.	Key. Phone.
American Cement Tile Mfg. Co., 801 Otis Bldg.	Spruce 764
Baird, A. S.	Builders' Exchange Market 2443 Main 1525
Brady, John F.	Crozer Bldg. Locust 2214 Race 3071
Ketcham, O. W.	Builders' Exchange Market 2470 Main 1738
Ludowici-Celadon Co.	443 S. 51st St. Woodland 2854
Moore, Wm. Co.	1506 Sansom St. Spruce 1502 Race 3246
Reid, A. S. & Co.	Morris Bldg. Spruce 646 Race 1984
U. S. Roofing Tile Co.	4934 N. 6th St. Wyoming 334

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Market 674 Main 5571 A

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Bridgeman Bros. Co.	120 S. 30th St. Preston 5800 West. 700.
Crane Co.	245 Master St. Kensington 5450. Park 960.
Edward Valve & Mfg. Co.	Colonial Trust Bldg. Spruce 2220.
Fairbanks Co.	7th & Arch Sts. Market 2210. Main 1715.
Ford & Kendig	1428 Callowhill St. Spruce 5310. Race 5030.
Fleck Bros. Co., Inc.	50 N. 5th St. Market 1655. Main 2630.
Jenkins Bros.	133-37 N. 7th St. Market 423. Main 199.
Keystone Supply & Mfg. Co.	927 N. 9th St. Market 4135. Park 1120.
Koons, E. W. Co.	911 Filbert St. Filbert 2813. Race 1831.
Nelson Valve Co.	Harrison Bldg. Spruce 5232. Race 1329.
McArdle & Cooney	519 Arch St. Market 962. Main 2970.
Pancoast, Henry B.	950 N. Front St. Market 2811. Park 1573.
Pratt & Cady Co. Inc.	529 Arch St. Market 4892. Main 414.
Perkes, Charles Co.	627 Arch St. Market 2780. Main 795.
Pittsburgh Valve Foundry & Construction Co.	Widener Bldg. Walnut 3855.
Pittsburg Valve & Fittings Co.	104 E. Moreland St. Chestnut Hill 2138.
Walworth Mfg. Co.	241 Arch St. Market 2055. Main 408.
Wood, R. D. & Co.	400 Chestnut St. Lombard 1020. Main 1680.

Wall Boards.

Alcott, W. K. Co.	52nd & Lancaster Ave. Belmont 514. West 234.
American Insulation Co.	Roberts & Stokley Sts. Tioga 8700. Park 335.
Beaver Board Co.	19th & Cambria Sts. Diamond 7157.
Buck, Daniel, Estate	5th & Jefferson Sts. Diamond 2686.
Felin, Charles F. & Co., Inc.	York Road ab. Butler St. Tioga 3460. North 1. (Cornell Board & Bisphoric Board)
Fiberlic Wall Board Agency	916 Filbert St. Walnut 359.
Hall Bros. & Wood	54th & Lancaster Ave. Belmont 3765.
Keasby & Mattison	1927 Market St. Spruce 976. Race 671.
Ketcham, Howard	1160 N. 3rd St. Market 1337. Park 595. (Black Rock & Compo Board)
Pearce Fireproof Co.	1345 Arch St. Locust 3924. Race 4434. (Sheetrock)
Pioneer Wall Board Co.	1620 Mifflin St. Dickinson 605.
Smedley Bros. Co.	Church & Tacony Sts. Frankford 1120. East 235.
Tague, Jas. E. & Co.	10th & Columbia Ave. (Sheetrock) Diamond 5030. Park 1010.
Third & Market Lumber Yard	Rear 32 N. 3rd St. Market 2456. Main 1231.
Weitzel Lumber Co.	Germantown & Sedgley Aves. Tioga 2177. Park 553.

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King, J. B. Co.	Builders Exchange. Market 3848. Main 2932.
U. S. Gypsum Co.	Witherspoon Bldg. Walnut 223.

Water Heaters.

Bell Phone.	Key. Phone.
Borden Stove Co.	1313 Arch St. Spruce 3348. Race 2076.
Cox, Abraham Stove Co.	American & Dauphin Sts. Kensgtn. 830. Park 771.
Miller, Henry M.	50 N. 2nd St. Market 996. Main 1731
Reeves Stove & Foundry Co.	38 S. 2nd St. Lombard 3977. Main 4855A.
Reynolds, J. & Son	1613 Filbert St. Spruce 3649. Race 325.
Richardson & Boynton Co.	1332 Arch St. Locust 5726. Race 3690.

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Badger Water Meter Co.	911 Filbert St. Filbert 2813.
Dougherty, Frank P.	1936 E. Passyunk Ave. Dickinson 436.
Gentel, Jos. S.	Real Estate Trust Bldg. Walnut 3433. Race 1507.
Griffin, John J. & Co.	1513 Race St. Spruce 4145.
Griffiths, E. F. Co.	2920 N. 16th St. Tioga 5163.
Harrison Safety Boiler Works,	17th bel. Allegheny Ave. Tioga 2146. Park 846.
Herron, Jas. F.	911 Filbert St. Filbert 2813.
Hershey Mfg. Co.	Commercial Trust Bldg. Locust 1800. Race 2183.
Keystone Supply & Mfg. Co.	927 N. 9th St. Market 4135. Park 1120.
Phila. Meter Co.	Real Estate Trust Bldg. Walnut 822. Race 1584.
Simplex Valve & Meter Co.	Real Estate Trust Bldg. Belmont 560.
Union Water Meter Co.	Real Estate Trust Co. Walnut 7475.
Water Meter Co.	Real Estate Trust Bldg. Walnut 3433. Race 1507.
Worthington Pump & Machinery Corp.	N. American Bldg. Walnut 284.

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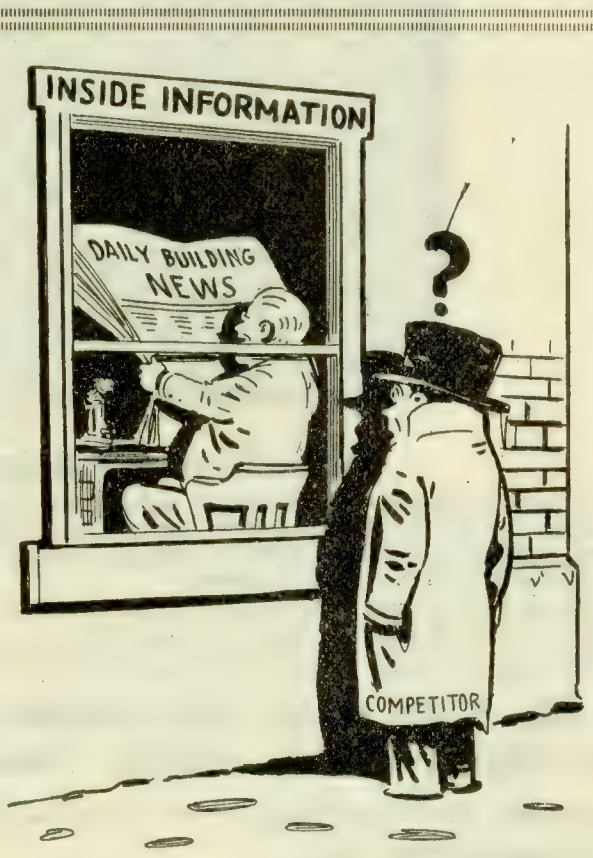
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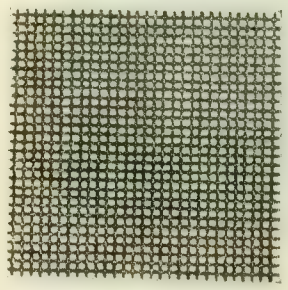
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WIRE and WIRE WORK

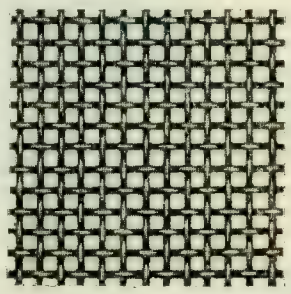
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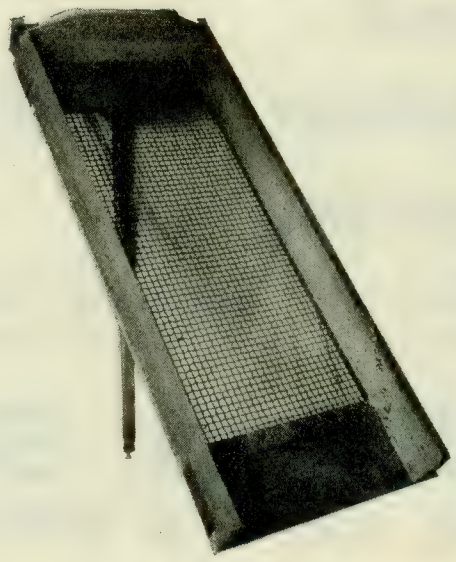
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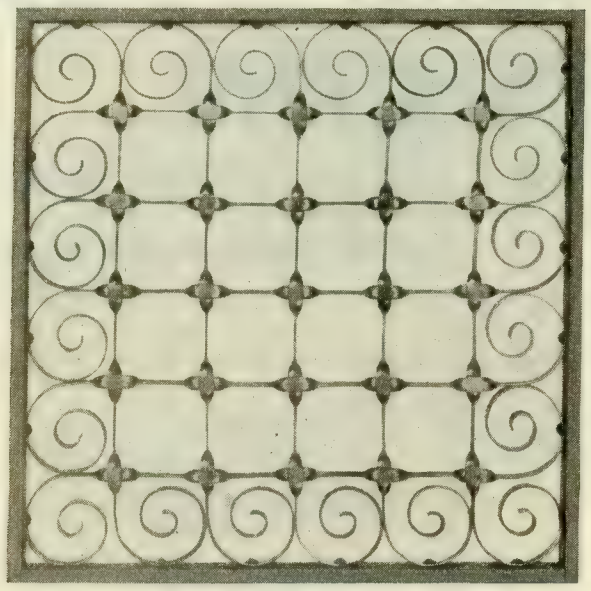
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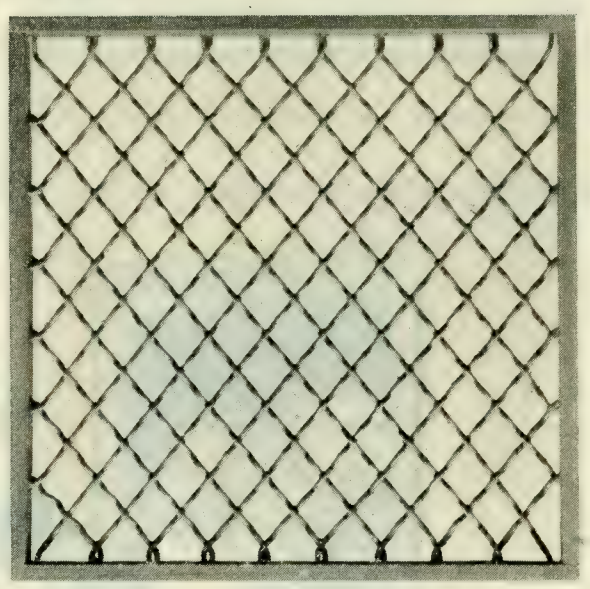
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Ristine, Edward J.	16 N. 6th St. Market 943.	
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(See Pipe & Pipe Fittings)

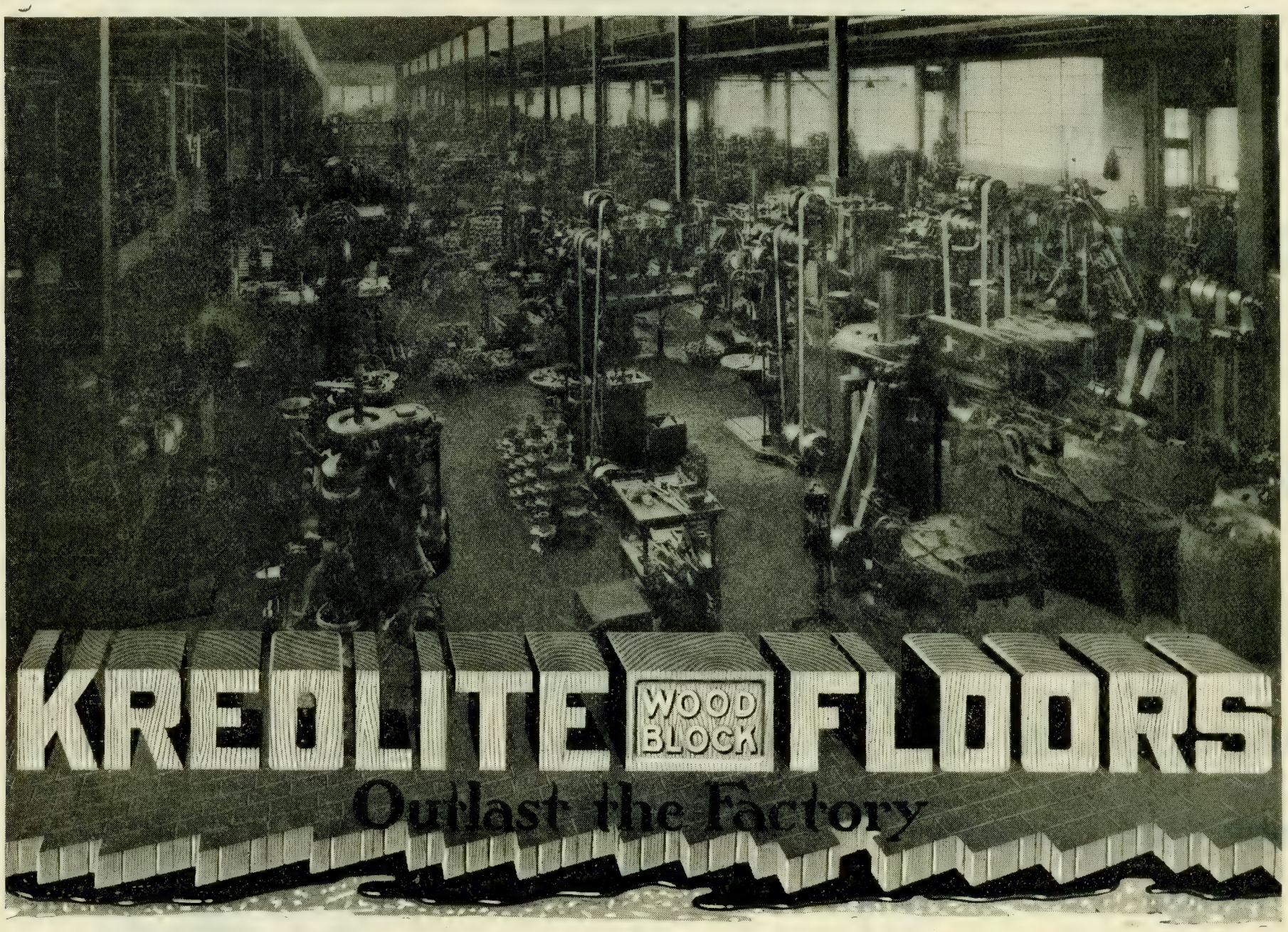
Woodwork.

(See Cabinetwork)



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Our process of thoroughly impregnating the well seasoned wood blocks with Kreolite Preservative Oil accounts for their ability to endure almost indefinitely.

The National Lamp Works of General Electric Company at Nela Park, Cleveland, has had occasion to prove to their satisfaction the great value of Kreolite Wood Blocks for re-surfacing old floors.

They recently purchased a factory building in which to manufacture the machinery and equipment which produces the intricate parts of the MAZDA Lamps. The building had cement floors which they thought unsuitable for this work; accordingly they decided to install Kreolite Wood Blocks over the cement floor, which change was quickly and economically made. This building has a floor space of over 70,000 square feet and contains hundreds of individual motor-driven machines.

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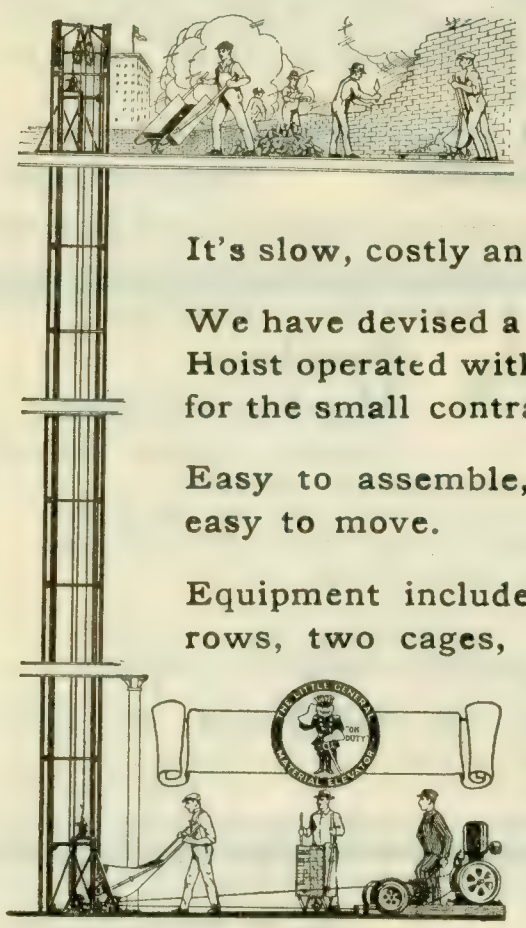
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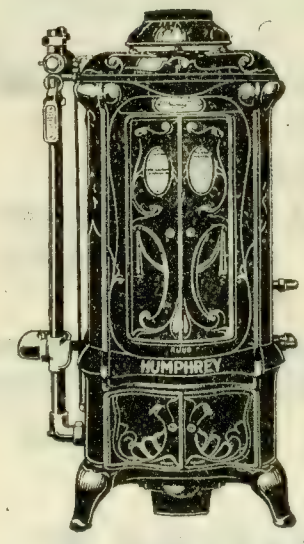
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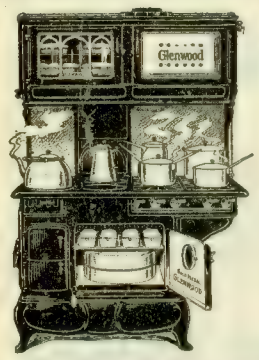
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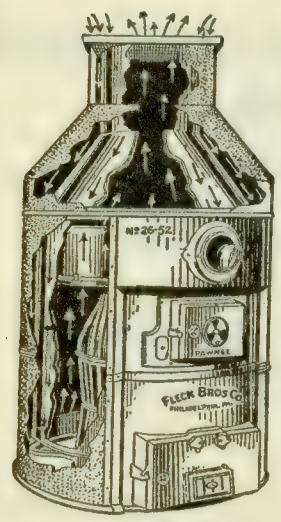


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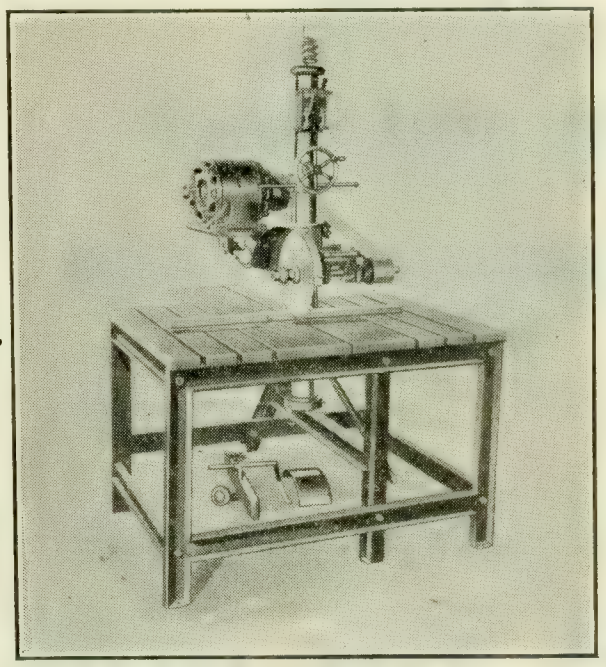
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 13

PHILADELPHIA
March 31, 1920

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

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As The Editor Sees It

COMBINED with this issue of the GUIDE is a directory of the Architectural and Building Trades of Philadelphia. So many inquiries for manufacturers, distributors, agents and what not in building materials are made daily at our offices that a directory was deemed advisable. This is a service we are giving to the building trades.

Copies of the directory have been distributed to all listed in it at no expense to the recipient. The utmost care has been taken to avoid overlooking any individual or firm that should be included in the classifications. Blanks were mailed to all listed in the directory, before going to press, requesting information that would enable us to check the names, addresses, classifications and phone numbers. Co-operation on the part of some was lacking. We are grateful to those who promtply furnished us data to supplement our work. Constant changes and additions may have caused omissions. If such occur, corrections will be gladly received so our records may be kept up to date.

The building news section of this edition of the GUIDE is a regular weekly feature, and contains reliable advance information covering building projects in, not only Philadelphia, but in Pennsylvania, New Jersey and Delaware. Where can you find more dependable prospects for your products and services? How are you keeping abreast of the tide of building that is sweeping the country? Why not get your share of the good work? If you are not a subscriber to the BUILDERS' GUIDE, send in your subscription now and you will be assured an abundance of live prospects for fifty-two weeks. The cost is trifling, only five dollars for the whole year's subscription.

* * *

THERE are so many changes taking place daily in the business world, and particularly in the construction field, that it is difficult to keep abreast of the kaleidescopic situation. Of one thing we are certain—the need for a big building program throughout the country is still urgent, and, so far, no adequate solution of the housing question has been found. In fact, we read that:

"With the beginning of spring the shortage of dwellig houses seems to be as acute as ever without any promise of relief in the near future. In Philadelphia and elsewhere distracted citizens are begging the authorities to help them to get a roof over their heads. In New York a great meeting was held in the Mayor's office, which was attended by capitalists, land owners, builders and members of the labor unions. All expressed a willingness to do their part in supplying homes for the homeless, but at the outset obstacles are presented because of disputes between the various labor organizations.

Bricklayers unaffiliated with the Building Trades Council decline to permit that organization to make agreements for them, saying that they have been in the habit of making their deals direct with their employers. Plumbers and others refuse to work with insurgent carpenters. Construction is further delayed by differences between the Iron Erectors' League and the Building Trades Council, which refuses to allow its members to work on buildings where the steel has been put in place by the open shop employees of the League. The Mayor of New York, who is the sponsor for these statements, says: 'I am satisfied there are seven or eight men in this city who have it within their power to say the word that will launch a building boom which would be the greatest in the history of the world.'

If this be true it is a deplorable situation. It is a pity if men are not able to get together and adjust their differences for the sake of the common good. We hear a great deal of complaining about profiteering these days, and much of it is justified, but it is evident that conditions would be materially improved if a give and take policy were inaugurated. Some men who work for a living often make it very hard for others who also have to earn their bread by the sweat of their brows.

DRAWING MATERIALS

CHARLES H. ROBBINS, JR.
1209 Arch Street, Philadelphia
BELL PHONE, SPRUCE 1256 KEYSTONE PHONE, RACE 614

BLUE PRINTS

Just such conditions exist all over the country, with Chicago and one or two other places touching the high-water mark of labor trouble.

There is, in addition to labor troubles, the great question of scarcity—whether real or supposed—of materials.

We urge everyone to keep himself posted concerning the digerent and changing aspects of the business and building situation. Know what is happening—then carry on the propaganda—inform your fellow worker, your employee. There are many solutions to the problems confronting us today, but they don't get much further than the paper they are written on. It will take the co-operation and effort of everyone, everywhere, to straighten out the snarls, and, not until we have learned to pull together—employer, employee, producer, consumer—will business and the construction industry is a most important industry at present, be what we are all wishing for.

Therefore get together! Acquire the facts of the situation, pass them on, and then co-operate.

ACTIVITIES OF THE BUILDERS' EXCHANGE.

Architects, Please Note!

An open invitation is hereby extended to all architects to attend the weekly luncheons of the Master Builders' Exchange, in the Clover Room of the Bellevue-Stratford Hotel, on Thursdays, from 12.30 to 1.30 P. M.

Prominent speakers, entertaining music and a delightful luncheon serve to make this a pleasant hour, and we would be pleased to have you with us.

Tickets for the luncheons are in series of four at five dollars ($1.25 each), and may be purchased at the office of the Builders' Exchange, or will be sent by mail upon receipt of check.

Please accept this as a cordial invitation to be with us each week.

Yours very truly,

MASTER BUILDERS' EXCHANGE,
E. E. HOLLENBACK, President.

"COLLECTIVE BARGAINING"

The principle of collective bargaining as a method for the settlement of the various questions affecting wages, working conditions, and other problems which are almost continuously an issue between employers and employes, has been much to the forefront since the introduction of a resolution approving this principle, before the Round Table Industrial Conference called at the instance of President Wilson, created, or brought out, so marked a dicerence of opinion on the subject as to practically disrupt the Conference and almost completely nullify the work of this body from which so much had been expected.

The right of workers to bargain collectively is recognized to a great extent throughout the industrial world and the practice is becoming increasingly prevalent as time goes on. Whether or not the acceptance of this principle by employers is because of belief in its justice —or because in these days of efficiently organized labor it is expedient to accede to the workers' demand for the right to bargain for a group through the chosen representatives of that group—does not enter into the point it is the purpose of this article to draw attention to.

We believe the principle itself is on trial both in the building industry, where it generally has been in effect for many years, so long in fact that builders, particularly in the large centers of population, are committed to it; and in a number of other leading industries where its application has been comparatively recent; and we believe the success or failure of this principle will be determined entirely b, the attitude of the labor unions with respect to the keeping of agreements entered into by their representativs. If the unions, or any group of employes who enter into agreements with employers, can and will insist upon a strict adherence to the spirit and letter of such agreements, we believe a greater confidence will be felt by employers and the confidence thus established will be the greatest single factor for the success of the principle. If, on the other hand, unions of workmen, either because of selfish interest or because of inability to compel compliance by their members, permit a disregard of obligations, the plan is doomed to failure. The employer will, under these conditions, naturally be averse to entering into contractual relations when experience has shown the inability or disinclination of the other party to abide by its agreements.

It is unfortunate that a feeling of this character has grown in the minds of employers and it should be the purpose of every representative of labor to do everything within its power to eradicate it. This can be accomplished in only one way—by a determined insistence upon compliance with all agreements entered into. We believe that every thinking labor leader is keenly aware of the necessity of establishing—or re-establishing—this confidence in the minds of employers, and we are hopeful that, if for no other reason than the value that will accrue to organized labor, a strong effort will be made to see that labor agreements are kept inviolate.—*Building Industry.*

* * *

A FABLE FOR BUILDERS.

Last Summer a Good Citizen of a Certain City not over one hundred miles from almost Anywhere, built a Wooden House for a Woman and her children. He Built the Chimney of Brick Because he had to. The Chimney was able to Stand Alone, so he did not have to Prop it with Wood. But the Floors of the House would not Stay Up without Props. The Good Citizen saved a Dollar by using the Chimney as a Support to the Floors. He Nestled the Ends of the Floor Joists nicely in the Brick of the Chimney. He Covered Up the Job and Got His Money.

The Rains Fell and the Winds Blew in the most Biblical manner, and Winter came after its Fashion. The Chimney Settled a Little, and there was a Tiny Crack.

One morning the Woman Woke Up with Fire All About Her. She tried to get Her Children. If She got to Them no one Ever Knew it. The Good Citizen who Built the House was Not Arrested for Manslaughter. He is building Other Houses of the Same Kind for other Women and Children.

He is making his Living by it.

F. H. WENTWORTH.

NO LIEN CONTRACTS

Contractor.	Owner.	Building.	Location.
D. W. O'Shea	St. Boniface's R. C. Church	Add. to boiler room	S. W. Cor. Mascher and Diamond Sts.
H. Loeb & Son	Hardwick & Magee Co.	Roofing	Seventh and Lehigh Ave.
F. G. Stewart	H. E. Thompson	Office alts. and add.	1809-11 East Allegheny Ave.
W. J. McShane	Rev. D. J. Dougherty	Parochial School	Twenty-eighth St. and Allegheny Ave.
G. P. Clayton	John R. Livezey	Office and Warehouse	Glenwood Ave., below Twenty-second St.
Boris Arrow	Abraham Rise	Alterations and repairs	1436-38 Germantown Ave.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Bungalow, Melrose Park, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Alfred B. Conaway, 5316 North Camac street, Philadelphia. Hollow tile and stucco, 1 story, 34x58 feet, asbestos shingle roof, hardwood and pine floors, stone foundations, hot air heat, electric lighting. Plans in progress. Will take bids in about one month.

Store and Dwelling, southeast corner of Ninth and Montrose streets, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner Pasquale Junta, care of architect. Brick, 3 stories, 21x56 feet, slag and Spanish tile roof, pine floors, hot water heat, electric light, stone foundations, metal ceilings, flush bulks, structural steel work. Plans completed. Architect is ready for bids.

Store and Dwelling (alts.), 803-05 South Second street, hiladelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Harry Prasker, on premises. general remodeling into one building, changing partitions, pine floors, hot water heating, electric lighting, metal ceilings, flush bulks. Plans in progress.

Apartment House (alts. and add.), 633-35-37 Girard avenue, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Joseph Cohen, 528 South Fifth street, Philadelphia. New brick, concrete and steel, fire tower, 4 stories, electric light, changing partitions (heating and plumbing reserved). Plans in progress.

Store and Residence (alts. and add.), Southeast Corner Third and Christian streets. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Fred Rosin, on premises. New partitions, slag roof, hardwood floors, hot water heating, electric lighting, metal ceilings, flush bulks. Architect will be ready for bids in one week.

Store and Residence, 765 South Fourth street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, S. Possen, on premises. General interior alterations, hardwood and composition floors, hardwood floors, electric lighting, tile work. Architect will be ready for bids in a few days.

Garage, 417 South Second street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, H. Cramer, on premises. Brick and steel, 1 story, 60x50 feet, wing 25x40 feet, slag roof, cement floors, concrete foundations, electric lighting, steam heating, hollow metal skylights, sliding doors. Architect will be ready for bids in a few days.

Store and Apartments (3 Stores and Apartments and Garage), Frankford, Philadelphia. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 52x105 feet, slag roof, oak, pine and cement floors, stone foundations, hot water heat, electric light, marble work, iron work. Plans in progress.

Lumber Shed and Office, 1528 Washington avenue, Philadelphia, $10,000. Architect, private plans. Owner, J. Edward Smith, 1314 Washington avenue, Philadelphia. Brick, 1 story, 72x110 feet, slag roof, mill work, carpentry. Owner will build.

School, Seventh and Norris streets, Philadelphia. Architect, private plans. Owner, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, 3 stories. Plans in progress. Too early for details.

Completion of Surgical Pavilion, Thirty-fourth and Spruce streets, Philadelphia. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Five stories, roof repairs, oak and terrazzo floors, tile and marble work, metal lath, elevators, hollow metal sash, copper skylights, steel doors, waterproofing, iron stairs, ornamental iron work. Architects taking bids due April 6th. Irwin & Leighton, 126 North Twelfth street; A. R. Raff Cont. Co., 1536 Thompson street; Standard Const. Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street; Jacob Myers & Sons Co., Witherspoon Building, and F. L. Hoover & Son, 1023 Cherry street, are figuring.

Residences (44), Robinson street, between Jefferson and Haddington streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Herman Beckershoff, 6212 Spruce street, Philadelphia. Brick, 2 stories, 18x32 feet and 18x37 feet, slag roof, hardwood floors, stone foundations, hot water heat, electric lighting, tile and marble work. Owner will be ready for sub-bids in one week.

Intake House, Queen Lane Pumping Station, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Bureau of Public Works, care of Director John C. Winston, 216 City Hall, Philadelphia. Brick and concrete, 1 story, 57x31 feet, iron roof, concrete foundations. Owners have received bids.

Store (alts.), 1437 Chestnut street, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Store Co., on premises. Masonry, marble work, carpentry, hardware, tile work, plastering, metal work, steel and iron work, painting, plumbing, repairing floors, metal ceiling (electric work and store fixtures reserved). Owners have received bids.

Residences (4), Magee and Hellerman street, East of Oakley avenue, $20,000. Architect, private plans. Owner, Morris M. Lichtenstfiein, 1933 South Fifth street, Philadelphia. Brick, 2 stories, 14x40 feet, slag roof, hot water heating. Owner will build.

Church (alts. and add.), Sixty-fifth and Callowhill streets, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, St. Donato's Roman Catholic Church, care of Rev. P. Michetti, on premises. Stone, steel and terra cotta, 2½ stories, 28x57 feet, tile roof, pine floors, stone foundations, metal lath, iron stairs, ornamental iron work (heating, plumbing and electric work reserved). Architect has received bids.

Parish Building, Beulah and Reed streets, Philadelphia. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owner, St. Timothy's Parish House, on premises. Brick, third floor add., 100x40 feet, tile roof, pine floors, tile work, heating and lighting extensions. Engineers have received bids.

Store and Apartments (alts.), Southwest Corner Thirteenth and Stiles streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, George J. Schmidt, on premises. Interior alterations, metal bulks, glazing, sheetrock partitions, hot air heating, electric lighting, plumbing. Plans completed. Architect ready for sub-bids.

Residence (alts.), 2038 Wallace street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. L. Meginnis, on premises. Changing partitions, steam heating, electric lighting, plumbing. Architect ready for sub-bids.

Store and Dwelling (alts. and add.), 2327 Ridge avenue, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Martin Shapiro, on premises. Brick, 1 and 2 stories, 24x12 feet and 20x14 feet, slag roof, oak floors, stone foundations, hot water heat, tile work. Owner has received bids.

Club House (alts. and add.), 16th and Jefferson streets, Phila. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Progress Club, on premises. General alterations, auditorium addition, brick, stone and steel. Plans in progress. Too early for details.

Buildings (2), Eleventh and Tabor road, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Hebrew Sheltering Home and Infants' Shelter, on premises. Brick, stucco and steel, main building, 2½ stories, 188x107 feet, (2) wings, 42x33 feet, isolation building, 2½ stories, 79x27 feet, slate roof, maple and composition floors, stone foundations, tile, marble and terrazzo work, metal lath, roof ventilators, waterproofing, fire escapes, ornamental iron work (heating and electric work reserved). Architects taking bids due April 7th. William R. Dougherty, 1610 Sansom street; J. M. Yardley, 1716 Sansom street; F. E. Wallace, 1220 Chancellor street; William R. Graham, 3649 Filbert street; Keystone State Const. Co., Franklin Bank Building; A. R. Raff Cont. Co., 1635 Thompson street; H. E. Baton, 1713 Sansom street, and F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Store and Dwelling, 1335 West Erie avenue,



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Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Frank C. Snedaker, Ninth and Tioga streets, Philadelphia. Brick, 2 stories, 21½x65 feet, slag roof, pine floors, stone foundations, hot water heating, electric lighting, flush bulks, metal ceilings, mill work, basement plastered. Owner taking bids, due as soon as possible. Lam Building Co., 1001 Wood street, is figuring.

Building (alts.) to Cold Storage Building, 208 North Delaware avenue. Architect, private plans. Owner, Sinclair Sales Corp., 208 North Delaware avenue, Philadelphia. Mill work, carpentry, cork work, plastering. Owners have received bids.

Store Building, 1309 Arch street, Philadelphia. Architect, private plans. Owner, Central Electric & Lock Co., 12 North Thirteenth street, Philadelphia. Brick, 2 stories, 20x125 feet, slag roof, pine floors, metal lath, stone foundations, rolled steel sash, kalamein doors, metal ceilings, dampproofing, ornamental iron work. Owners have received bids.

Residence (alts.), 834 North Broad street, Philadelphia. Architect, Francis G. Caldwell, Stephen Girard Building, Philadelphia. Owner, Mrs. J. Barratt Conner, 1340 Green street, Philadelphia. Demolition, excavation, cement work, brick work, terra cotta, steel, carpentry, cut stone, underpinning, plumbing, plastering, painting, hollow metal skylights, tin roof, wire glass (heating and electric work reserved). Architect taking bids due April 5th. William R. Graham, 3649 Filbert street, is figuring.

Manufacturing Building (alts. and add.), Orianna and Willow streets. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, E. Hubschman, Orianna and Willow streets, Philadelphia. Concrete and steel, 1 story and basement, 60x80 feet, slag roof, cement floors, rolled steel sash (heating and lighting reserved), plumbing. Architects taking bids due April 8th. Robert E. Lamb Co., 843 North Nineteenth street; Sutton & Stephenson, 1317 Washington avenue; Ketcham & McQuade, 1029 Brown street; F. B. Davis, 240 North Sixteenth street; Cramp & Co., Denckla Building; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; W. O. Springer, 1624 Latimer street, and William R. Dougherty, 1610 Sansom street, Philadelphia, are figuring.

Stores (3), Fifteenth street, North of Locust street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 1 or 3 stories, 20xirregular, slag roof. Plans in progress. Architect will be ready for bids in one week.

Residence (alts.) to Apartments, Northeast Corner Fifteenth and Locust streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, name withheld. General interior alterations to 4 story residence, slag roof, hardwood floors, hot water heating, electric lighting, tile work, plumbing. Plans in progress. Architect will be ready for bids in one week.

Amber Theatre, Frankford avenue and Sargent street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Amber Theatre, on premises. Architects taking bids due April 3rd. Pierce-Henon, Inc., Bulletin Building; Ketcham & McQuade, 1029 Brown street; P. M. Sax, Franklin Bank Building; William R. Dougherty, 1610 Sansom street; John R. Wiggins & Co., Otis Building, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Residence and Garage, Seventh and Chelten avenue, Oak Lane, Philadelphia. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owner, E. R. Brooks, care of architect. Stone, 2½ stories, 37½x27½ feet, slate roof, oak and cement floors, stone founda-

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tions, hot water heating, electric lighting, tile and marble work, plumbing, garage, 1 story, 10x18 feet. Plans in progress.

Building (alt.), 1306 Walnut street, Philadelphia. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Dr. L. Webster Fox, Seventeenth and Spruce streets, Philadelphia. Brick and steel, 3 stories, slag roof, composition and pine floors, steam heat, electric light, marble work, hollow metal skylights, metal bulks, iron work, metal lath, elevator, roof ventilators. Owner taking bids due as soon as possible. Smith-Hardican Co., 1606 Cherry street, is figuring.

Convent, G and Westmoreland streets, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Roman Catholic Church of the Ascension of Our Lord, care of Rev. Denis J. Broughal, on premises. Brick, stone, steel and concrete. Plans in progress.

Storage Building (alts.), Twenty-second and Panama streets, Philadelphia. Architect, Stuckert & Co., Crozer Building, Philadelphia. Owners, Crane Ice Cream Co., Twenty-third street below Locust street, Philadelphia. Three stories, structural steel, cement work, electric elevator, electric lighting, general alterations. Architects taking sub-bids.

Residence (alts.) into Apartment House, Stenton, Philadelphia. Architect, Allen Cornell, Bulletin Building, Philadelphia. Owners, Mauran & Dolman, Liberty Building, Philadelphia. Carpentry, mill work, plastering, plumbing, hot water heat, electric work, iron work. Owners have received bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building (alts. and add.), 1248 North Broad street, Philadelphia. Architect, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, George H. Earle, Real Estate Trust Building, Philadelphia. Brick, steel and terra cotta, 2 stories and mezzanine, 160x25 feet, slag roof, maple and pine floors, metal lath, stone foundations, electric lighting, rolled steel sash and skylights, iron work. Contract awarded to Pierce-Henon, Inc., Bulletin Building, Philadelphia.

Receiving Building, Ninth and Cumberland streets, Philadelphia, $15,000. Architect, private plans. Owner, Breyer Ice Cream Co., Ninth and Cumberland streets, Philadelphia. Reinforced concrete and steel, 1 story, 44x90 feet, asbestos roof, cement and vitrified brick floors, plumbing, rolling steel doors and tin clad doors. Contract awarded to William F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia.

Store and Offices (alts. and add.), 1728 Ritner street, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, William B. Fox, care of builder. Brick add., cement work, hot water heating, electric lighting. Contract awarded to Frank Lucci, 1603 Ellsworth streets, Philadelphia.

Garage, 1121 West Lehigh avenue, Philadelphia, $9,000. Architect, private plans. Owner, S. Shapiro, on premises. Brick, 1

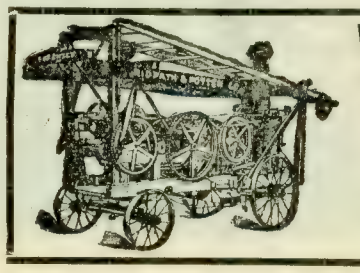


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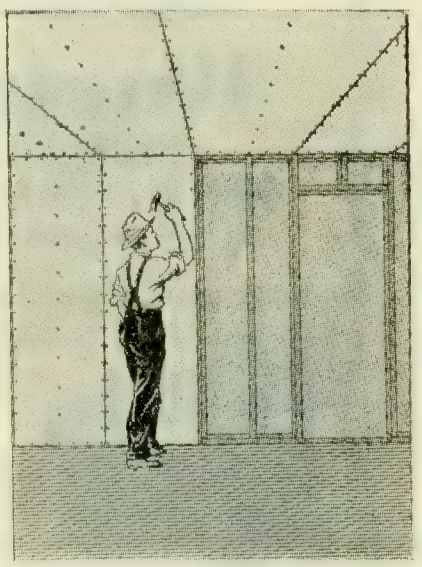
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Tenth Street and Columbia Avenue - Philadelphia, Pa.

story, 32x90 feet, slag roof, cement floors, electric lighting, steam heating. Contract awarded to H. P. Werner, 3245 Germantown avenue, Philadelphia.

Store (alts.), Southeast Corner Twelfth and Chestnut streets, Philadelphia, $100,000. Architect, private plans. Lessee, Retail Stores Co., New York City (505 Fifth avenue), care of builder. General alterations. Contract awarded to Nugent Const. Corp., 505 Fifth avenue, New York City.

Church and School, Richmond and Venango streets, Philadelphia, $45,000. Architect, Charles H. Schaef, Penfield Building, Philadelphia. Owner, St. George's Roman Catholic Church, care of Rev. Ignatius Zinblys, premises. Brick, 2 stories, 52x110 feet, steam heating, electric lighting, mill work, sliding doors. Contract awarded to John A. Engle, 3047 North Fifth street, Philadelphia.

Bank (alts. and add.), Southeast Corner Thirty-second and Market streets, Philadelphia, $19,000. Architect, private plans. Owner, Centennial National Bank, on premises. Brick, 2 stories, 29x28 feet, slag roof, steam heating, electric lighting, oak floors, metal lath. Contract awarded to Brann & Stuart Co., Commercial Trust Building.

Garage, Albert street, West of Sepviva street, Philadelphia, $10,600. Architect, private plans. Owners, Kensington Hygeia Ice Co., on premises. Brick, 1 story, 50x63 feet, slag roof, cement floors, steel sash, hollow metal skylights, roof ventilators (heating reserved). Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Residences, Seventy-first street and Overbrook avenue and Seventy-first and Sherwood road, $42,000. Architect, private plans. Owner, Morris Wood, Sixty-sixth and City Line, Philadelphia. Hollow tile and stucco, 46x28 feet, and 3 stories, 35x43 feet, slate roof, hot water heating, electric lighting, tile and marble work, oak floors. Contract awarded to Milton W. Young, Overbrook, Pa.

Store and Dwelling (alts. and add.), 1215 North Fifty-second street, $4,000. Architect, private plans. Owners, J. R. Wilson, 929 North Broad street, Philadelphia. Brick, 1 story, 4½x15 feet, slag roof, electric lighting, hardwood floor. Contract awarded to Cook & Gouch, 57 Wood street, Camden, N. J.

Show Room (alts. and add.), 31-33 North Second street, Philadelphia, $35,000. Architect, private plans. Owner, Samuel Kline, 700 North Front street, Philadelphia. Brick, 1 story, 30x204½ feet, slag roof, pine floors, electric lighting. Contract awarded R. S. Van Cleave, 1612 B, South Fifty-sixth street.

Residence (alts.), 71 Bethlehem Pike, Chestnut Hill, Philadelphia. Architect, H. L. Durhing, Bailey Building, Philadelphia. Owner, Miss Lucy Duhring, on premises. Stone, interior alterations, fire escapes, steam heat, slate roof. Contract awarded to Wolverton & Co., 28 East Willow Grove avenue, Philadelphia.

Warehouse and Shop, Tioga street, East of Janney street, $25,000. Architect, private plans. Owners, Penna. Gear & Machinery Co., 435 North Broad street, Philadelphia. Brick, steel and concrete, 1 story, 81x20 feet and 60x200 feet, slag roof, cement floor, electric lighting. Contract awarded to Walter Farrow, 109 Petrie street, Rosemont, Pa.

Residence (int. alts.), 151 Maplewood avenue, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, name withheld. Brick and tile work, mill work, plumbing, painting, repairs to roof, general alterations. Contract awarded to Samuel Harting, 20 East Johnson street, Philadelphia.

PENNSYLVANIA
Construction News

Residence, Haverford, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Robert W. Wigton, Morrisdale Coal Co., Ardmore, Po. Hollow tile and stucco, 2½ stories, 20x50 feet, wing 20x30 feet, slate roof, oak floors, stone foundations, electric lighting, tile and marble work. Architect will be ready for bids in about three weeks.

Residence, Haverford, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Gilbert Mather, 226 Walnut street, Philadelphia. Stone, 2½ stories, 30x52 feet, wing 18x30 feet, slate roof, oak floors, stone foundations, vapor heat, electric lighting, tile and marble work. Plans in progress.

Apartment Houses and Residences, Ardmore, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Autocar Co., Ardmore, Pa. Brick, steel, concrete, hollow tile and stucco, 3 stories, 2½ stories. Plans about completed.

Twin Residence, La Mott, Pa. Architect, W. John Stevens, Inc., Wyncote, Pa. Owners, Waltier & Winslow, La Mott, Pa. Brick and stucco, 2½ stories, 34x52 feet, slag and shingle roof, oak and pine floors, stone foundations, hot air heating, electric light. Owners taking bids due April 3rd. E. Allen Reeves, Abington, Pa., is figuring.

Residence, Lansdowne Court, Lansdowne, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Mrs. John M. Shrigley, Lansdowne, Pa. Hollow tile, brick and plaster, 2½ stories, 40x45 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Architects taking bids due April 7th at noon. J. Sims Wilson Co., 1125 Brown street; William H. Eddleman & Son, 453 Green Lane, Roxboro, and William N. Thompson, 1529 Filbert street, Philadelphia, are figuring.

Residence, Kirklyn, Pa. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, Charles E. Stokes, care of architects. Frame, 2½ stories, 30x35 feet, shingle roof, pine floors, stone foundations, hot air heating, electric lighting, iron work. Architects will be ready for bids in a few days.

Bungalows (2), Narberth, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Gallagher & McEnamin, care of architect. Hollow tile and stucco, 1½ stories, 35x40 feet. Plans in progress. Too early for details.

Residence, Montgomery avenue and Ross Lane, Haverford, Pa., $35,000. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Charles C. Norris, Jr., West End Trust Building, Philadelphia. Stone and brick, 2½ stories, stone foundations, oak floors, electric lighting, tile work. Plans in progress.

Residence, Elkins Park, Pa. Architect,



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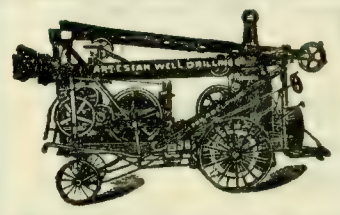
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private plans. Owner, George A. Bauer, 5 Asbury Place, Oak Lane, Philadelphia. Frame and plaster, 2½ stories, 49x48 feet, slate roof, composition, oak and pine floors, hollow tile, stone foundations, hot water heat, electric lighting, marble work, iron work. Owner taking bids due April 3rd. Specht & Sperry, Heed Building, and E. Allen Reeves, Abington, Pa., are figuring.

Garage, Wynnewood, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. No. 1072. Hollow tile and stucco, 1½ stories, 22x27 feet, shingle roof, cement work, hot water heat, electric light, plumbing. E. J. Hedden, Finance Building, Philadelphia, is taking revised sub-bids.

Residences (6), Collingdale, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Christian Hansen, East Lansdowne, Pa. Brick and stucco, 2½ stories, 16x40 feet, shingle roof, hardwood and pine floors, stone foundations, hot air heat, electric lighting. Owner is taking sub-bids.

Residences (6), Andrews avenue, Collingdale, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Christian Hansen, East Lansdowne, Pa. Brick and stucco, 2 stories, 20x27 feet, slag roof, hardwood and pine floors, stone foundations, hot air heat, electric lighting. Owner is taking sub-bids.

Bank Building, Upper Darby, Pa. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Sixty-ninth Street Trust Co., care of John J. Dougherty, Sixty-ninth Street Terminal, Philadelphia. Architects selected. Work contemplated. Too early for details.

Residence, Ardsley, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Miss Mary A. Thomas, 573 North Twentieth street, Philadelphia. Hollow tile and stucco, 2½ stories, 39x16 feet, asphalt shingle roof, oak and pine floors, stone foundations, hot air heat, electric light, tile work. Owner has received bids.

Washington Memorial Chapel (alts.), Valley Forge, Pa. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owner, Washington Memorial Chapel, Valley Forge, Pa. Paving, mill work and alterations. Architects taking revised bids due as soon as possible. William H. Eddleman & Son, 453 Green Lane, Roxboro, Philadelphia Pringle Borthwick, 8018 Germantown avenue, and H. H. Burrell, 206 South Quince street, Philadelphia, are figuring.

School (annex), Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Allentown School Board, care of G. P. Wenner, secretary, Allentown, Pa. Brick, fireproof, 2 stories and basement, 100x118 feet, asphalt roof, concrete and tile floors, electric light, tile and terrazzo work, hollow metal skylights, fire doors, roof ventilators, metal window guards. Board ready for bids.

Storage Warehouse, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, H. S. Haltzer, Allentown, Pa. Concrete, 2 stories, 66x338 feet, asphalt roof, concrete and mill construction floors, electric light, rolled steel sash, flood doors, roof ventilators, waterproofing. Plans in progress. Architect ready for bids.

Garage, Northampton, Pa. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, Charles Dimler, Northampton, Pa. Brick, 1 story, 40x60 feet, slag roof, fireproof floors, electric light. Plans near completion. Owner will take general bids.

Bank (alts.), Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, Liberty Trust Co., care of Mr. Siegel, Northampton Heights, Pa. Gen-

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Bungalows (operation), West Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owners, Hermany & Jones, West Bethlehem, Pa. Frame and stucco, 2 stories, 32x50 feet, concrete foundation, slate roof, hardwood floors, hot air heat, electric light. Owners taking general bids.

School, Triangle street, Kingston, Pa., $50,000. Architects, T. R. Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Kingston School District, D. W. Rosser, Kingston, Pa. Brick, 2 stories and basement, 68x78 feet, concrete foundations, slag roof, maple floors, steam heat, electric light, roof ventilators. Plans in progress.

Residence, Dorancetown, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Grace Church, care of architect. Stucco, 2½ stories, 30x40 feet, slag roof, pine floors, vapor heat, electric light, metal lath. Plans in progress.

Garage, Hazleton, Pa. Architect, George Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, hollow tile, 1 story, 28x34 feet, concrete foundations, slate roof, cement floors, hot water heat, electric light, metal ceilings. Plans in progress.

Theatre (alts.), Towando, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, W. L. Wooden, Towando, Pa. General interior alterations, new seats, steam heating, tile and marble work, roof ventilators. Owner will take bids in one week.

Fire House (alts.), Hazleton, Pa. Architects, Schroeder & Schmitt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Pioneer Fire Co., Hazleton, Pa. Interior and exterior work, brick, steel and wood work, plumbing. Owner will take bids in a few days.

Bungalow, Bangor, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, W. G. Pritchard, Bangor, Pa. Stone, 2 stories, 26x35 feet, stone foundations, slate roof, hardwood floors, hot water heat, electric light. Plans in progress.

Home (add.), Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, Children's Home, Mrs. A. Johnson, Bethlehem, Pa. Brick, 3 stories, 30x50 feet, slate roof, pine floors, electric light, plumbing. Plans in progress.

Silk Mill, Pottsville, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Phoenix Silk Mfg. Co., Race and Court streets, Allentown, Pa. Brick, mill construction, 2 stories, 150x50 feet, stone foundations, slate roof, plank and gumwood floors, electric lighting, rolled steel sash, fire doors, elevators, roof ventilators. Revised plans in progress.

Hotel (add.), Easton, Pa. Architect, William Michler, Drake Building, Easton, Pa. Owner, Hotel Easton, care of Williams Bros., Easton, Pa. Fireproof construction, 5 stories, interior alterations, slag roof, hardwood and tile floors, heating extension, electric light, tile work, elevators, hollow metal skylights, fire doors. Architect will be ready for bids in two weeks.

Residence, Stroudsburg, Pa. Architect,

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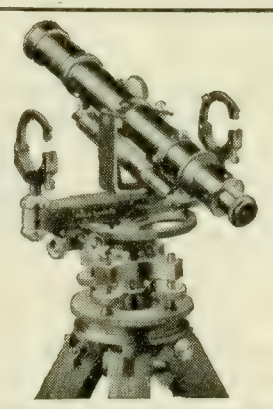
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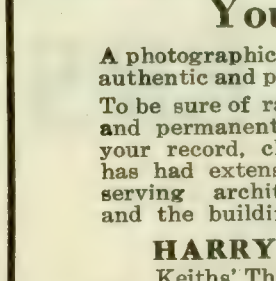
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William Michler, Drake Building, Easton, Pa. Owner, C. R. Bensinger, on premises. Hollow tile and stucco, 2 stories, 21x56 feet, concrete foundations, tin roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress. Ready for bids in two weeks.

Silk Mill (add.), Allen street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Majestic Silk Mill Co., on premises. Slow burning construction, 3 stories, 66x217 feet, steel trussed roof, wood floors, heating extension, electric light, hollow metal skylights, fire doors, roof ventilators, vault doors, stair case tower. Architects will be ready for bids next week.

Bank and Office Building, Third and Birch streets, Bethlehem, Pa. Architects, Dennison & Hirons, 475 Fifth avenue, New York. Owners, Bethlehem National Bank, care of H. L. Ashe, cashier, Third and Adams streets, Bethlehem, Pa. Brick, stone, 1 story, 42x150 feet. Architect selected. Plans in progress.

Apartment, Jefferson and Myrtle streets, Scranton, Pa. Architect, L. Reisman, Miller Building, Scranton, Pa. Owner, S. Seliven, 226 Lackawanna avenue, Scranton, Pa. Brick, frame and stucco, 3 stories, 60x40 feet, concrete foundations, pine floors, electric light, tile work. Plans in progress.

Club House, Lehighton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, B. P. O. E., care of P. M. Grant, secretary, M. S. Jordan, chairman of Building Committee, Lehighton, Pa. Slow burning construction, 3 stories and basement, 50x90 feet, slag roof, hardwood floors, steam heat, electric light, tile, marble and terrazzo work. hollow metal sash, roof ventilators. Revised plans in progress.

School, Clay street, Scranton, Pa., $70,000. Architects, E. H. Davis and M. D. Lewis, Union Bank Building, Scranton, Pa. Owner, Scranton Co. Day School, care of architect. Frame and stucco, 1 story and basement, 85x85 feet, hardwood floors, electric light, hollow metal sash, roof ventilators. Revised plans in progress.

Church, Gouldsborough, Pa., $5,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. D. J. Kane, Moscow, Pa. Frame, 1 story, 30x64 feet, asbestos roof, pine floors, electric light. Architect will be ready for bids in April.

Silk Mill (add.), Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Black Diamond Silk Co., Scranton, Pa. Brick, mill construction, 2 stories, 50x65 feet, slag roof, pine and maple floors, electric light, hollow metal sash and skylights, fire doors, roof ventilators, waterproofing. Owner taking bids.

Business College (add.), Jefferson and Linden streets, Scranton. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Scranton Lackawanna Business College, care of J. H. Seeley, premises. Brick, stone, 4 stories, 40x81 feet, stone foundations, slag roof, maple floors, steam heat, electric light, metal lath, fire doors, roof ventilators, hollow metal sash. Owner taking sub-bids.

Residence (alts. and add.) and Garage, Elkins Park, Pa. Architect, private plans. Owner, George F. Shuster, Elkins Park, Pa. Hollow tile and stucco, 2½ stories, 29x28 feet, and 1½ stories, 22x25 feet, shingle roof, pine and cement floors, hollow tile, electric light, tile work, iron work, stone foundations. Owner taking bids due April 6th. F. W. Van Loon, Denckla Building, Philadelphia, is figuring. .

Residence (alts. and add.), Merion, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Joseph B. McCall, Esq., Merion, Pa. General interior alterations. Architect taking bids. John R. Wiggins & Co., Otis Building, is figuring.

Residence and Garage, Drexel Hill, Pa. Architect, James Earl Miller, 23 South Sixteenth street, Philadelphia. Owner, architect. Stone, stucco and frame, 2½ stories, 50x54 feet, shingle (cedar) roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work, metal lath, cement work, metal weather strips, plumbing. Architect will be ready for sub-bids in a few days.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, State Capitol Building, Harrisburg, Pa. Bids will be opened at 10 A. M., April 13, 1920, for the construction of the following roads. Forms and specifications free and plans $2.50 per set at State Highway Department, Harrisburg, Pa.

Beaver County, Route 204, Darlington Township and Darlington Borough, length 26,949 feet. One course reinforced concrete. Certified check **$4,000.**

Beaver County, Appl. 254, Center Township, length 3,055 feet. Vitrified brick. Certified check $1,500.

Crawford County, Route 84, Cambridge Township and Cambridge Spring Borough, length 18,121 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $3,000.

Crawford County, Route 82, Vernon Township, length 18,619 feet. Either one course reinforced concrete or two course reinforced concrete. Certified check $3,000.

Crawford County, Route 89, East Mead Township, length 18,514 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $3,000.

Delaware County, Routet 130, Upper Darby Township, length 4,278 feet. Bituminous surface course on concrete foundation. Certified check **$1,500.**

Fayette County, Route 117, North Union Township, length 18,480 feet. One course reinforced concrete. Certified check $4,000.

Fayette County, Route 247, Perry and Jefferson Townships, length 14,496 feet. One course reinforced concrete and Hillside vitrified brick. Certified check **$2,000.**

Huntingdon County, Route 33, Mill Creek Borough, length 4,243 feet. One course reinforced concrete. Certified check $1,000.

Indiana County, Route 223-314, East Wheatfield Township, length 25,030 feet. One course reinforced concrete and Hillside vitri-

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Luzerne County, Route 4, Salem Township, length 17,673 feet. One course reinforced concrete. Certified check $2,500.

Lycoming County, Route 21, Jackson, Cogan House and Lewis Townships, length 52,478 feet. One course reinforced concrete. Certified check $4,000.

Mercer and Lawrence Counties, Routet 238, Wilmington, Shenango and Hickory Townships and West Middlesex Borough, length 51,874 feet. Either bituminous surface course on concrete foundations or one course reinforced concrete. Certified check $4,000.

Schuylkill County, Route 162, Blythe and Schuylkill Townships and Tamaqua Borough, legnth 39,979 feet. One course reinforced concrete. Certified check $4,000.

Tioga County, Route 196, Tioga Township and Tioga Borough, length 20,942 feet. Either bituminous surface course on concrete foundations or one course reinforced concrete. Certified check $4,00.

Warren County, Routte 79, Sugar Grove awn Farmington Townships, length 40,485 feet. One course reinforced concrete. Certified check $4,000.

Westmoreland County, Route 68, Derry Township, 32,047 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Road Work, various locations, Pennsylvania. Owner, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, State Capitol Building, Harrisburg, Pa. Bids will be opened April 14 at 10 A. M. Corms and specifications free and plans $2.50 per set at State Highway Department, Harrisburg, Pa.

Armstrong County, Route 188, Kiskiminetas Township, length 10,610 feet. One course reinforced concrete. Certified check $2,000.

Cambria County, Routet 222, Richland and Stony Creek Townships and Scalp Level Borough, length 24,207 feet. One course reinforced concrete. Certified check $4,000.

Cambria County, R-53, Allegheny and Cambria Townships and Ebensburg Borough, length 24,431 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Crawford County, R-207, West Mead Township, length 22,675 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

Delaware County, R-225, Swarthmore Borough, length 7,471 feet. One course reinforced concrete. Certified check $1,500.

Erie County, R-84, Waterford and Summit Townships, length 42,900 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

Fayette County, R-366, Stewart and Wharton Townships, length 26,267 feet. Either bituminous macadam, penetration method on broken stone base and Hillside vitrified brick or one course reinforced concrete. Certified check $4,000.

Fayette County, R-117, Dunbar Township, length 20,996 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Greene County, R-111, Center Township, length 10,620 feet. One course reinforced concrete. Certified check $2,000.

Jefferson County, R-64, Union Township and Corsia Borough, length 14,436 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $3,000.

Lawrence County, R-81, Pulaski Township, length 28,644 feet. One course reinforced concrete. Certified check $4,000.

Montgomery County, R-51, Moreland and Horsham Townships, length 25,911 feet. One course reinforced concrete. Certified check $4,000.

Potter County, Route 236, Shinglehouse Borough, length 8,358 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $1,500.

Susquehanna County, R-10, New Milford and Hallstead Boroughs and New Milford and Great Bend Townships, length 29,974 feet. One course reinforced concrete. Certified check $4,000.

Tioga County, Route 196, Richmond and Tioga Townships and Mansfield Borough, length 20,410 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $4,000.

Warren County, R-95, Mead Township and Clarendon Borough, length 23,893 feet. One course reinforced concrete. Certified check $4,000.

Washington County, R-181, North and South Strabane Townships, length 22,845 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

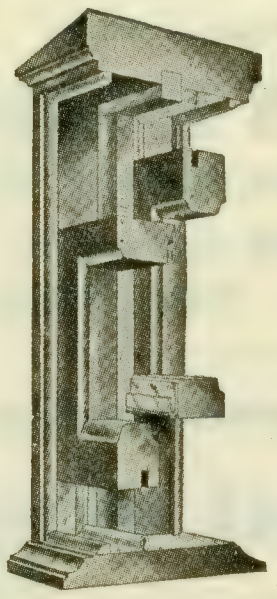
Warren County, Appli. 154, Farmington and Pine Grove Townships, length 22,287 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Westmoreland County, Route 187, Salem township, length 39,440 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, State Capitol, Harrisburg, Pa. The following are the low bidders on road work, opened March 23rd, 1920:

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Butler County, Middlesex and Penn Townships, R-72, length 26,076 feet. One course



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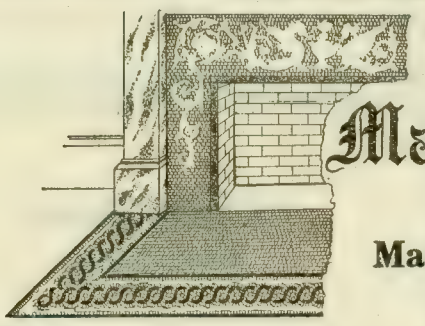


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reinforced concrete. Booth & Flinn, Ltd., Pittsburgh, Pa., $324,123.21.

Centre County, Boggs Township, Routet 219, length 21,311 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. The Miller Const. Co., Punxsutawney, Pa., $406,841.30.

Fayette County, Bullskin and Upper Tyrone Townships, Route 117, length 9,432 feet. One course reinforced concrete. J. I. Dick, Scottdale, Pa., $108,408.50.

McKean County, Bradford Township and Lewis Run Borough, R-97, length 31,269 feet. Either one course reinforced concrete or monolithic vitrified brick. Mason & Hanger Co., Paxinos, Pa., $379,398.40.

Mercer County, Jefferson, Delaware and Hampfield Townships, R-82, length 48,465 feet. One course reinforced concrete. The Donald-McNeil Co., Pittsburgh, Pa., $585,230.02.

Monroe County, Stroudsburg Borough and Stroud, Hamilton and Pocono Townships, R-168, length 41,441 feet. One course reinforced concrete and Hillside vitrified brick. John J. Guinan Cont. Co., Brooklyn, N. Y., $516,122.20.

Monroe County, Pocono, Paradise and Coolbaugh Townships, R-168, length 37,458 feet. One course reinforced concrete and Hillside vitrified brick. Porter Bros., Wilkes-Barre, Pa., $504,517.35.

Montgomery County, Cheltenham, Abington and Moreland Townships, R-151, length 29,860 feet. One course reinforced concrete. Union Paving Co., Thirtieth and Locust streets, Philadelphia, $317,685.70.

Northumberland County, Northumberland Borough, Point Township, R-2, length 20,545 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Mason & Hanger Co., Inc., Paxinos, Pa., $230,737.20.

Northumberland County, Point Township, R-2, 21-286 feet. One course reinforced concrete. William P. McDonald Const. Co., Philadelphia., $204,598.95.

Tioga County, Tioga Borough and Tioga Township, Route 22, length 15,686 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Adams-Evans & Co., New York City, $172,779.00.

Low bidders on road work, opened March 24th:

Adams County, Cumberland and Franklin Townships, R-43, length 46,150 feet. One course reinforced concrete. Mason & Hanger Co., Paxinos, Pa., $485,410.80.

Beaver County, Chippewa and South Beaver Townships and Darlington Borough, R-204, length 28,165 feet. One course reinforced concrete and Hillside vitrified brick. The J. C. Devine Co., Alliance, Ohio, $424,838.00.

Butler County, Conoquenessing and Butler Townships, R-78, length 31,663 feet. One course reinforced concrete. C. E. Walter, Butler, Pa., $351,355.27.

Carbon County, Mauch Chunk Township, R-162, length 19,812 feet. One course reinforced concrete and bituminous macadam on a Telford base. Bohn & Gallagher, Wilkes-Barre, Pa., $197,169.35.

Franklin and Adams Counties, Franklin Township and Green Township, R-43, length 44,165 feet. One course reinforced concrete. Couder Const. Co., Inc., Lancaster, Pa., $417,872.42.

Huntingdon County, Huntingdon Borough, Route 33, length 1,910 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Thomas J. Strickler, Huntingdon, Pa., $15,775.00.

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Lycoming County, Hempbuhn and Lewis Townships, R-20, length 29,409 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Busch & Stewart, Inc., Williamsport, Pa., $413,417.68.

McKean County, Eldred Township, R-120, length 14,800 feet. One course reinforced concrete. Peter E. Colgan, Dunkirk, N. Y., $136,892.93.

Northampton County, Williams Township, R-156, length 34,904 feet. One course reinforced concrete. Smith-McCormick Co., McInerney & McNeal, Inc., Easton, Pa., $450,383.51.

Northumberland County, Rockefeller and Shamokin Townships, R-161, length 26,200 feet. One course reinforced concrete. Mason & Hanger Co., Inc., Paxinos, Pa., $294,459.50.

Venango County, Sandy Creek and French Creek Townships, Route 208, length 19,033 feet. One course reinforced concrete and Hillside vitrified brick. Martin Dolan, Jamestown, N. Y., $193,978.50.

Pennsylvania Contracts Awarded

Barn (alts.) into (2) Stables, Berwyn, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, Mrs. Susannah H. Bodine, Berwyn, Pa. General alterations, cement work. Contract awarded to Charles Edward, Berwyn, Pa.

Factory, Lancaster, Pa. Architect, private plans. Owners, Merchant & Evans Co., Twenty-second and Washington avenue, Philadelphia. Brick and steel, 1 story, 100x300 feet, slag roof, maple floors, stone foundations, rolled steel sash, fire doors, waterproofing, iron work. Contract awarded to Austin Co., Bulletin Building, Philadelphia.

Residences (2), Haverford, Pa., $56,000. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owners, Williams & Doran, care of architects. Hollow tile and stucco, 2½ stories, 21x48 feet, slate roof, oak and pine floors, hollow tile, metal lath, ornamental iron work, stone foundations, vapor heat, electric lighting, tile work. Contract awarded to Herbert G. Campion, Otis Building, Philadelphia.

Log Cabin (alts. and add.), Berwyn, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, Mrs. Susannah H. Bodine, Berwyn, Pa. Timber, 2½ stories, 9x15 feet, shingle roof, hot air heating. Contract awarded to Charles Edwards, Berwyn, Pa.

Garage, Norristown, Pa. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owner, E. M. Evans, Norristown, Pa. Brick, 1 story, 22x24 feet, tile roof, cement floor, stone foundations, hot water heat, electric lighting. Contract awarded to Frank Shuler, Norristown, Pa.

Residence, Clifton avenue, Sharon Hill, Pa. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Mrs. Georgie Pierce Folsom, care of architects. Hollow tile and plaster, 2½ stories, 28x42 feet, shingle roof, oak floors, metal lath, stone foundations, warm air heat, electric lighting. Contract awarded to Warren E. Biscoe, 3954 Ludlow street, Philadelphia.

Residence (porch add.), Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, F. W. Lewis, Merion, Pa. Stone and timber, 25x19 feet, mill work, glazing, vapor heating, tile roof. Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Residence (alts.) to Two Residences, Berwyn, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, Mrs. Susannah H. Bodine, Berwyn, Pa. New interior partitions and general alterations, hot air heating. Contract awarded to Chas. Edwards, Berwyn, Pa.

Hall and Dwelling, 255-59 Germantown avenue, $37,000. Architect, private plans. Owners, Salvation Army, Broad and Fairmount avenue, Philadelphia. Brick, 2 stories, 32x54 feet, and one story, 37x44 feet, slag roof, steam heating, electric lighting, oak floors, steel and iron work. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street, Philadelphia.

Synagogue, Southwest Corner Larchwood and Salford streets, Philadelphia, $15,000. Architect, private plans. Owner, Congregation of Chevrah, 5743 Larchwood avenue, Philadelphia. Brick, 1 story, 60x75 feet, slag roof. Contract awarded to Harry Schwartz, 5743 Larchwood avenue, Philadelphia.

Residences (2) (alts.) to Apartments, 1141-43 South Fifty-eighth street, $5,000. Architect, private plans. Owner, Francis H. Thole, Penn Square Building, Philadelphia. Brick, 1 story add., 7x8 feet, slag roof, electric lighting. Owner will build.

Offices and Two-family Dwelling, 1434 Lombard street, $3,748. Architect, private plans. Owners, Armstrong Association, on premises. Third floor add., brick, 14x13 feet, slag roof. Contract awarded to J. F. Trent, 2041 Master street, Philadelphia.

Residence (add.), 158 Maplewood avenue, Philadelphia, $2,500. Architect, private plans. Owner, Frank M. Gillingham, 5504 Greene street, Philadelphia. Brick ,1 story, 17½x11 feet. Contract awarded to John McCoy, 1215 Summer street, Philadelphia.

Commission Building, East Northampton street, Wilkes-Barre, Pa. Architect, private plans. Owner, H. Epstein & Son, East Northampton street, Wilkes-Barre, Pa. Steel, brick, 2 stories and basement, 32x161 feet, stone foundations, slag roof, pine floors, electric light, marble work, elevators, steel rolling doors. Contract awarded to William Kear, Gildersleeve street, Wilkes-Barre, Pa.

Residence (alts.), Hazleton, Pa. Architects, Schroeder & Schmitt, Weitkenkorn Building, Wilkes-Barre, Pa. Owner, J. B. Warriner, Hazleton, Pa. General intetrior alterations, steam heat, electric light, oak floors, porches. Contract awarded to W. L. Campbell Const. Co., Hazleton, Pa.

Garage, Mulberry street, Scranton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Philip Reisland, care of architect. Structural steel, 2 stories, 60x100 feet, slag roof, concrete floors, electric light, rolled steel sash, hollow tile. Contract awarded to Lewis Caputo, 1039 South Main street, Scranton, Pa.

School and Association Room, Glen Lyon, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Newport Township School District. J. Morris, president, Alden, Pa. Brick, 2 stories and basement, 108x90 feet, stone foundations, slag roof, pine floors, electric light, tile work, metal lath. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

Barn and Garage, Wilkes-Barre, Pa. Architect, F. H. Atherton, Coal Exchange Building, Wilkes-Barre, Pa. Owner, J. O. Hunt, Wilkes-Barre, Pa. Concrete and stucco, 1 story each, 40x60 feet and 20x30 feet, composition roof, concrete floors, electric light, metal stalls. Contract awarded to Otto Behrens' Sons, 179 Blackman street, Wilkes-Barre, Pa.

House, Palmer Township, Pa. Architect, William Michler, Drake Building, Easton, Pa. Owner, Mr. Chitman, Easton, Pa. Stone and frame, 2 stories, 68x68 feet, shingle roof, hardwood floors, electric lighting, tile work. Contract awarded to Mr. Snyder, Easton, Pa.



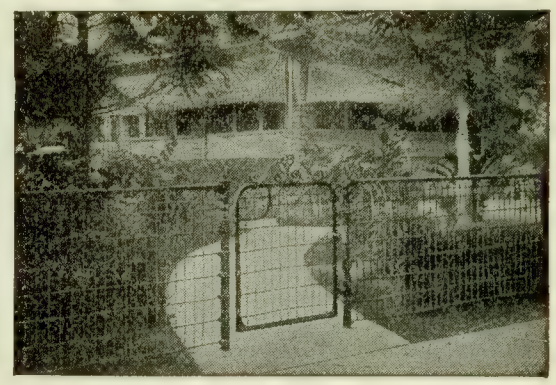
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New Jersey Construction News

School, Collingswood, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Board of Education, Collingswood, N. J. Brick and stone, 3 stories, stone foundations, steam heating, electric lighting. Plans in progress.

Park (improvements), Camden, N. J. (Second and Cooper streets), $100,000. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, City of Camden, City Hall, N. J. Donor, Eldredge R. Johnson, president, Victor Talking Machine Co., Camden, N. J. Marble work, bronze work, etc. Plans in progress.

Residence, Haddon Heights, N. J. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, C. Lofau, care of architects. Frame, 2½ stories, 30x40 feet, shingle roof, pine floors, stone foundations, pipeless furnace, electric lighting. Plans in progress.

Nurses' Home and Dining Hall, Sixth and Stevens streets, Camden, N. J. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owner, Cooper Hospital, Camden, N. J. Brick and reinforced concrete, 3 stories, 42x50 feet and 40x48 feet, concrete foundations, cement floors, steam heat, electric lighting, tile work. Architects ready for bids.

Factory, Trenton, N. J., $300,000. Architect, Walter Hankins, 239 South Warren street, Trenton, N. J. Owners, H. D. Lee Mercantile Co., Kansas City, Kansas. Reinforced concrete, 6 stories and basement, 80x156 feet, slag roof, hardwood and concrete floors, steam heat, electric lighting, hollow metal sash, fire doors, fire tower, elevators, roof ventilators, dampproofing. Architect taking bids due April 8th. Warren-Moore Co., Colonial Trust Building; J. S. Rogers Co., Drexel Building; Turner Const. Co., 1713 Sansom street; Standard Const. Co., 1713 Sansom street; Cramp & Co., Denckla Building, all of Philadelphia; James Morris, Trenton, N. J., and Geo. A. Fuller Cont. Co., 175 Fifth avenue, N. Y. City, are figuring.

Residence (alts.) to Apartment, 192 West State street, Trenton, N. J. Architect, R. G. Connolley, Commonwealth Building, Trenton, N. J. Owner, Mr. Usher, Marko Co., 19 East State street, Trenton, N. J. General interior alterations, new plumbing, tile work. Architect will be ready for bids April 15th.

Horticulture Building, New Brunswick, N. J., $40,000. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owner, State of New Jersey, care of architect. Brick and concrete, 2½ stories and basement, 136x68 feet, slate roof, reinforced concrete floors, steam heating, electric lighting, tile and marble work, hollow metal skylights, roof ventilators. Architect taking bids due April 5th. Hudson Const. Co., Longacre Building, New York, and Standard Const. Co., 1713 Sansom street, Philadelphia, are figuring.

Building, New Brunswick, N. J. Architect, F. H. Bent, State Architect, Trenton, N. J. Owner, State of New Jersey, care of architect. Brick and stone, 2½ stories, 66x39 feet, wings 57x35 feet, wing 37x35 feet, slate roof, maple and tile floors, metal lath, hollow metal doors, dampproofing, iron stairs, iron work, stone foundatins. Architect taking bids due April 5th. Standard Const., 1713 Sansom street, Philadelphia, is figuring.

Stable and Private Garage, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick and concrete, 2 stories, 26x46 feet, Reynold shingle roof, cement floors, hot water heat, electric light. Plans in progress.

Garage, Inlet Section, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick and concrete, 1 story, 90x150 feet, concrete foundations, slag roof, concrete floors, hot water heat, electric light. Plans in progress.

Bungalow, Ventnor, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, C. S. Barrett, Ventnor, N. J. Cement and frame, 1½ stories, 28x40 feet, concrete foundations, asbestos shingle roof, pine floors, pipeless heater, electric light, tile work. Plans in progress.

Residence, Collingswood, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, E. S. Yard, 201 Haddon avenue, Camden, N. J. Concrete and frame, 1½ stories, 36x44 feet, concrete foundation, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will take general bids.

Nurses' Cottage, Atlantic County, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owner, Board of Chosen Freeholders, care of F. F. Doughty, Absecon, N. J. Frame, 2 stories, 34x52 feet, brick foundations, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owners taking revised bids due April 14th. Summers S. Stillman, P. G. Hannum and W. N. Young, all of Atlantic City, N. J.; Charles Corsin and William Sharrock, both of Lynwood, N. J., and J. Yates, Pleasantville, N. J., figuring.

New Jersey Contracts Awarded

Apartment, Chelsea, Atlantic City, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owner, Mrs. Jane Loughran, 3 North Newton avenue, Ventnor, N. J. Brick and shingles, 2 stories and basement, 28x42 feet, asbestos shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Morell Bowen, 103 South Newton avenue, Ventnor, N. J.

Bank, Absecon, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owner, First National Bank, care of Mr. B. Babcock, president, Absecon, N. J. Stone, brick and terra cotta, 1 story, 24x45 feet, concrete foundations, slag roof, tile and hardwood floors, steam heating, electric lighting, tile work, vault (bank fixtures reserved). Contract awarded to J. Yates, Pleasantville, N. J.

School (alt. and add.), Ventnor, N. J., $20,000. Architects, V. B. Smith and J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owner, Ventnor School Board, care of Wilbur Zimmerman, Guarantee Trust Building, Atlantic City, N. J. Brick, 2 stories and basement, concrete foundations, slag roof, concrete and maple floors, electric lighting, hollow metal skylights, roof ventilators. Contract awarded to William Beaumont, 12 South Tennessee avenue, Atlantic City, N. J.

Stores and Apartment, Mississippi avenue and Boardwalk, Atlantic City. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owner, F. H. Hudson, 16 North Chelsea avenue, Atlantic City, N. J. Brick, 3 stories, 50x79 feet, concrete foundations, slag roof, pine floors, electric light. Contract awarded to P. G. Hannum, Atlantic City.

Bank, Phillipsburg, N. J. Architect, William Michler, Drake Building, Easton, Pa. Owner, Phillipsburg Trust Co., Phillipsburg, N. J. Brick and tile, 1 story, 40x60 feet, concrete foundations, asbestos shingle roof, tile and concrete floors, vapor heat, tile work. Contract awarded to Benj. Rymon, Phillipsburg, N. J.

Factory (add.), Southard street, Trenton, N. J. Architect, R. G. Connolloy, Commonwealth Building, Trenton, N. J. Owner, National Porcelain Co., care of Bayard Dunkle, on premises. Brick, 2 stories and basement, 51x72 feet, concrete foundation, slag roof, plank floors, electric lighting, rolled steel sash. Contract awarded to Edw. Lee, Tyler street, Trenton, N. J.

Garage and Show Rooms, South Warren street, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, F. G. Fisher, Montgomery street, Trenton, N. J. Brick, 1 story, 75x41 feet, concrete foundations, slag roof, steam heating, electric lighting. Contract awarded to Samuel Wiley, 517 Monmouth street, Trenton, N. J.

Laundry, Brunswick avenue, Trenton, N. J., $75,000. Architect, private plans. Owner, Rollin H. Blakely, 11 South Warren street, Trenton, N. J. Brick and steel, 1 story, 87x164 feet, stone foundations, slag roof, wood and cement floors, electric lighting, metal lath. Contract awarded to N. A. N. Bugbee, 206 East Hanover street, Trenton, N. J.

Residence, South Broad street, Trenton, N. J., $3,600. Architect, private plans. Owner, John Gallagher, care of builder. Cement block, 2½ stories, 28x14 feet, slag roof, pine floors, electric light. Contract awarded to David Nudenberg, 29 Market street, Trenton.

Miscellaneous Construction News

Store (alts. and add.), Ninth and Market streets, Wilmington, Del. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Schulte Cigar Co., Fifteenth and Chestnut streets, Philadelphia. General alterations. Architects taking bids. J. S. Bader & Co., Stewart & Willey Co., Realty Const. Co. and Russum Co., all of Wilmington, Del., are figuring.

Residence (alts. and add.), Wilmington, Del. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Charles L. Candee, 1003 North Broome street, Wilmington, Del. New porch add., slag roof, pine floors, heating and electric light extensions, plumbing. Architect will take bids in about two weeks.

School Building, Goodyear, Conn. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Killingly Town Committee, Goodyear, Conn. Brick, steel and concrete, 2 stories, auditorium. Plans in progress.

Residence, Seville, Ohio. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, name withheld. Brick and stucco, 1½ stories, 50x80 feet, asbestos shingle roof. Plans in progress.

Proposals

SEALED PROPOSALS.

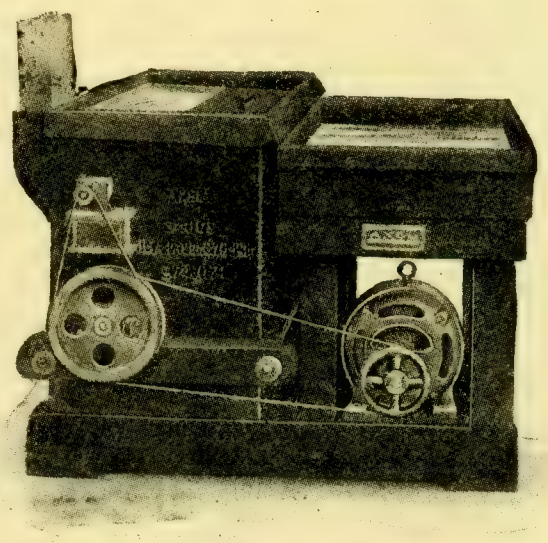
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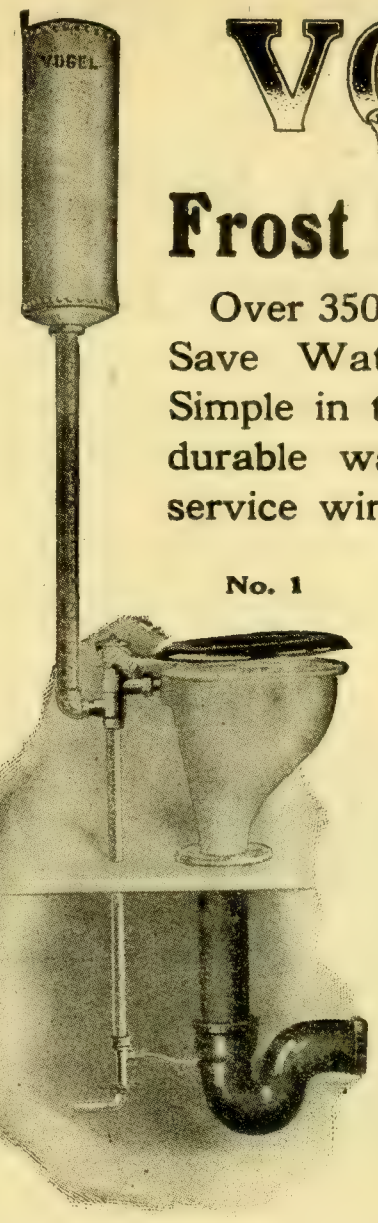
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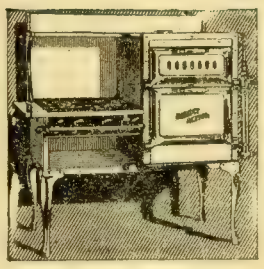
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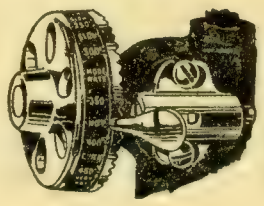






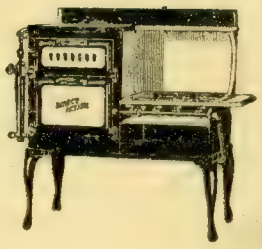
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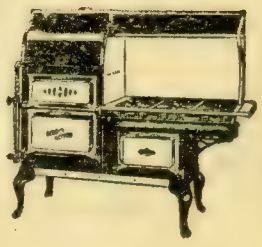
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

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April 7, 1920

Issued Weekly in the Interests or Architects, Structural Engineers, Contractors and the Material and Equipment Trades

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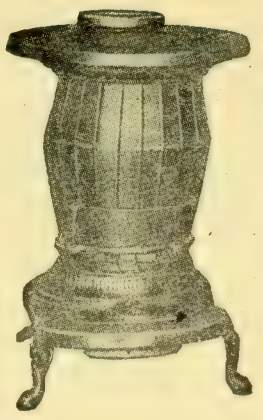
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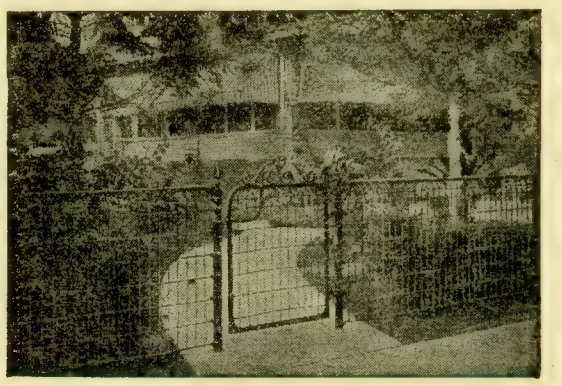
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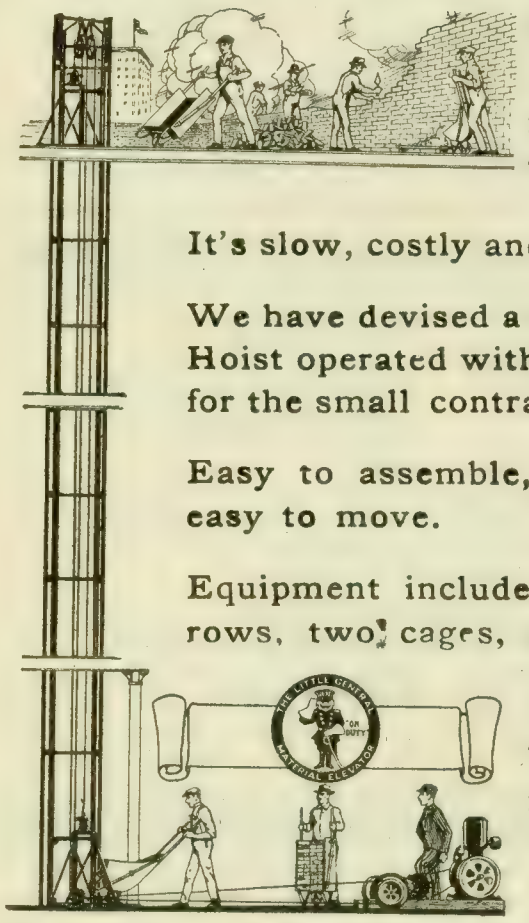
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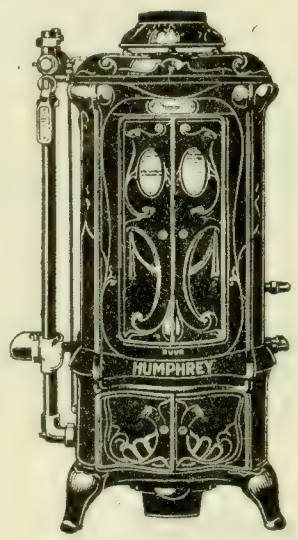
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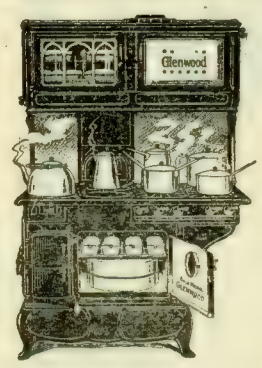
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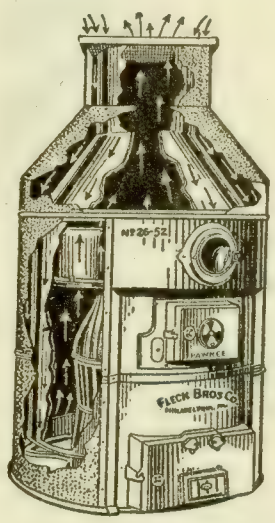


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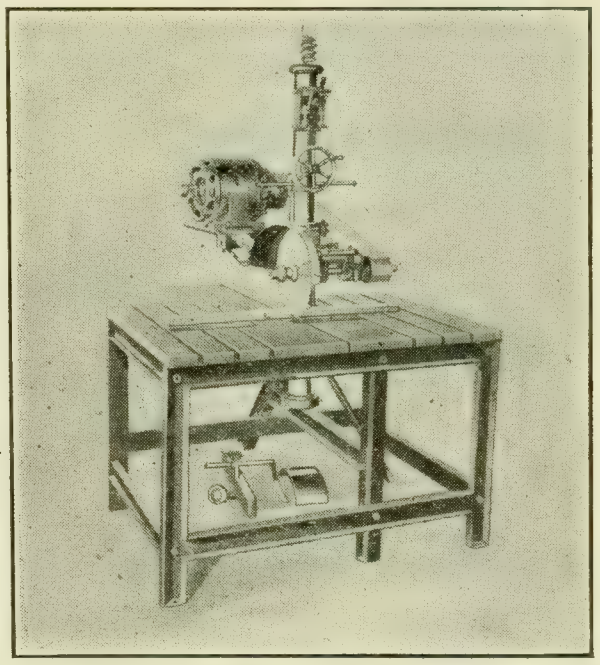
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 14

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April 7, 1920

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
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As The Editor Sees It

EXTRAVAGANCE, profiteering, high prices demanded by labor, throughout this country, are beginning to cause serious reflection. On all sides there is fear expressed regarding the outcome of continued advances in the cost of everything.

The determined stand that Mr. H. W. Foote, President of the North Western Expended Metal Co., has taken against profiteering the whole building industry should endorse.

"Business is headed for a smash if profiteering doesn't stop," said Mr. Foote. "If advancing prices continue in material, labor and other lines, business won't need to worry about the future, because there won't be any business. Inflation of values always brings a collapse, and the country is indulging in a regular fever of such inflations now. It's time right now to head off the approach of such a serious situation as a panic would bring. And the only way to start the movement back to normal prices for everything is for someone, at his own sacrifice, to start it. This is what we are endeavoring to do in our line.

"I am of the firm conviction that business, in order to save itself, should cut its profits to the bone. It's good business in the long run. Let's have a moratorium on profits in every line for a while, for the sake of the country. Make it a matter of patriotism. I believe that labor will be glad to get in on it and do its share.

"I attended a convention the other day at which the general sentiment was that with labor demanding more and a premium having to be paid in order to get steel, an increase in price should be put on building materials. It was just another instance of the 'viscous circle.' I believe that profits should stand these increased costs as far as they should be, and that there should be no advance until it is absolutely necessary in order to keep business going.

"There is profiteering in every line. Let's admit it. We should get together now as American citizens, stop the 'vicious circle,' and bring back business to normal again. It's the only thing that will settle the unrest and will be the biggest benefit to labor and industry alike."

"The time has arrived to put on the brakes," says the *Architect and Engineer,* continuing: "Anent the movement throughout the country to stabilize prices we print the following letter from Mr. B. J. Williams, director of sales, Paraffine Companies, Inc., in the belief that it may encourage other large corporations like the Paraffine Companies to take similar action. The accompanying letter not only shows present tendencies and the inevitable outcome of their continued tolerance, but it points out the duty of the manufacturer, merchant, farmer, property owner, and, in fact, of every citizen, in these unsettled times:

TO THE TRADE

Conditions affecting the roofing industry and allied lines are abnormal and puzzling in the extreme. On the one hand the demand from the trade is larger than ever before and greatly in excess of the ability of manufacturers to supply. On the other hand, raw materials are very scarce—almost unobtainable, with prices at unheard of levels. Rags, for example, are now selling at $85 per ton, an advance of $30 per ton during the past six months.

The situation in the East is even more acute than on the Pacific Coast, some manufacturers having advanced prices three different times during January. Others have called in their salesmen, while a number are booking orders only for shipment at their convenience and at prices in effect when shipment is made. These Eastern conditions are already being reflected on this Coast in the form of greatly increased demand, and with advancing prices on the part of some manufacturers.

As to the advisability—indeed the necesity—of keeping prices down in general, there can be no argument. We, in common with thoughtful and patriotic citizens everywhere, recognize that prices cannot go higher without *extreme danger.*

How to meet the situation is the great

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question. Anticipating, in some degree at least, the conditions that would follow as a result of the restriction of building during the war, this company practically rebuilt its roofing plant at a cost of more than a million dollars. These improvements increased its output over 100 per cent., making it today the most modern, the most efficient and the largest single roofing plant in the world.

As a result of these increased facilities, our manufacturing costs are considerably lower than those of most manufacturers. Because of this fact and our sincere desire to assist in stabilizing prices generally, it is our purpose not to take advantage of prevailing conditions to exact the limit in prices. In other words, we will give our customers the benefit of our increased facilities and the stocks of raw materials which we have on hand, and will advance prices *only* when our present large stocks are exhausted and we have to replace at still higher prices.

In the meantime, we advise our customers not to speculate, but to buy to cover their *immediate requirements only*. If the building in sight in your city or community indicates a demand on you during the next three months for 100 squares, 500 squares, or a carload of roofing, *buy that quantity and no more,* but place your order *now* to insure delivery of the goods when you need them

We urge also that our customers in turn do not attempt to secure from their customers the highest prices obtainable, but that they be satisfied with a *fair and reasonable profit,* because, in our opinion it is only by so doing that, our mutual interests and those of the country at large can be conserved.

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.

BUILDER'S EXCHANGE ACTIVITIES.

At the luncheon of the Master Builders' Exchange Thursday last, Major General W. G. Price substituted as speaker of the day in place of District Attorney William D. McAvoy, who was unexpectedly called to Washington.

General Price made a very interesting address on the history and value of the National Guard to this country. He emphasized the importance of continuing the National Guard instead of making compulsory military training and service. General Price exhorted the members of the Exchange to use all their influence to further the National Guard and mentioned the names of various manufacturers and large employers of labor who have co-operated with the National Guard in its development.

The speaker at the luncheon at the regular place, Bellevue-Stratford Hotel, Clover Room, April 7th, will be Mr. D. Knickerbocker Boyd, the prominent architect of Philadelphia. Mr. Boyd will speak on a matter of vital importance to the building fraternity at large, emphasizing the necessity of greater co-operation between architects, builders and material men.

Mr. Thomas Armstrong, Chairman of the Luncheon Committee, urged all members of the Exchange to be present and asked each to bring an architect, so that co-operation between the architects, builders and material men may begin at the luncheon.

* * *

$100,000,000 FOR HOMES TO BE LENT BY BANKS.

Chicago bankers will lend $100,000,000 in 1920 to home builders in an effort to end the housing shortage, it is announced.

Part of the fund will be made available immediately to enable victims of the tornado to rebuild their homes.

PERSONALS.

Ellery K. Taylor, architect, has opened offices at 1627 Sansom Street, Philadelphia.

Mr. Taylor wants catalogues, literature and samples from all building material and supply houses.

Mr. Taylor was formerly associated with John T. Windrim, later with Day & Clauder, and recently Superintendent of Construction for Snare & Triest on the South Philadelphia Terminals.

* * *

Wm. R. Graham, formerly of Graham-Campion Company and James H. Wells, formerly of Metzger & Wells, have formed a partnership, for the transaction of a general contracting business in building construction at 3649-51-53 Filbert Street, Philadelphia.

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This could be avoided by the use of a galvanized iron primer. After a primer has been applied, a good rust inhibitive paint should be used. This gives life to the galvanized iron and also prevents the formation of rust which would occur if the iron were not painted.

(Continued on Page 367.)

NO LIEN CONTRACTS

Date.	Contractor.	Owner.	Building.	Location.
3/27	John E. Spitz	Isaac Leblang	Alterations and repairs	1609-11 Erie Ave., and 3700 Pulaski Ave.
3/29	All Contractors and Material Men	Oler & Shapiro	28 Houses	4800-52 Hutchinson St.
3/29	All Contractors and Material Men	Harry Gill, Jr.	36 Houses	Sixty-second and Ellsworth Sts.
3/29	Jacob Bender	L. Epstein	Alterations and repairs	N. E. Cor. Ninth and South Sts.
3/29	Harting & Sons	Charles W. Potts	House	Westview, west of Wissahickon Ave.
3/29	John N. Gill & Co.	F. J. Stones Machine Co.	Factory	N. W. Cor. Tabor Road and Perry Sts.
3/29	R. Rust	Universal Service Motors Co.	Alterations and repairs.	1401-7 Locust St.
3/30	L. S. Freedman	Samuel Urem	Alterations and add.	441 South St.
3/30	J. S. Calhoun	Hardwick & Magee Co.	Painting and glazing	Lehigh Ave., bet. 7th and Marshall Sts.
3/30	All Contractors and Material Men	H. P. Collins	25 Houses	Sixty-third St. and Greenway Ave.
3/31	Wolverton & Co.	H. Wolstenholme	Houses	Scotforth Road, near Kitchens Lane, C. H.
3/31	John Hogan & Co.	Hardwick & Magee	Cut Stone	Seventh and Lehigh Ave.
3/31	Standard Construction Co.	W. W. Webb	Building	Chestnut, west of Thirty-fourth St.
4/1	Pierce-Hinton Co.	Geo. H. Earle, Jr.	Building	1248 N. Broad St.
4/1	United Electric Construction Co.	H. E. Thomson	Electrical work	1109-11 E. Allegheny Ave.
4/1	Gray & Dornee	H. E. Thomson	Heating and plumbing	1109-11 E. Allegheny Ave.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (alts. and add.) to Apartments, 2009 Spruce street, Philaedlphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Harry Kuemmerle, Morris Building, Philadelphia. New fire tower, brick and concrete, hardwood floors, vapor heat, electric lighting, plumbing, ornamental iron work. Architects are ready for bids.

Paving, Grading, Bridge Repairs, Municipal Ashphalt Plant, City of Philadelphia. Owners, City of Philadelphia, Bureau of Highways, Department of Public Works, John C. Winston, Director, Room 232, City Hall, Philadelphia. Grading, vitrified block paving, curb and footway work, asphalt paving, rebuilding southeast end of bridge (Broad street and Lehigh avenue). Construction of asphalt plant. Owners taking bids due at noon April 20th.

Store, Garage and Sun Parlor, Northeast Boulevard, Philadelphia. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2 stories, 22x17 feet, slag roof, cement and oak floors, stone foundations, hot water heat, electric lighting, tile work, metal lath, iron work. Architects will be ready for bids in one week.

Stores and Moving Picture Theatre, location withheld, Philadelphia. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel and terra cotta, 1 story, 54x115 feet, slag roof, cement and maple floors, stone foundations, steam heat, electric light, tile, marble and terrazzo work, roof ventilators, iron work. Preliminary sketches being drawn.

Store and Dwelling (alts.), 926 West Girard avenue, Philadelphia. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, B. Goodes, care of architect. Plumbing, hot water heat, electric work, plastering, painting and glazing. Will be ready for bids in one week.

Store and Residence (alts.), 5925 Girard avenue, Philadelphia. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, Burk Meat Co., care of architects. Brick and steel, 1 story, 15x22 feet, slag roof, pine floors, stone foundations, electric lighting, plastering, painting, plate glass, iron work. Architect will be ready for bids in a few days.

Residence (alts.) to Apartments, 2135 Spruce street, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owner, name withheld. Iron work, carpentry, composition floors, tile work, hollow metal skylights, roof repairs, plastering, oak floors, hardware, painting and glazing. Architect taking bids due April 15th. Frank G. Stewart, 1619 Sansom street, is figuring.

Residence (alt. and add.), 430 Allen Lane, Germantown, Philadelphia. Architect, Carl A. Ziegler, Bailey Building, Philadelphia. Owner, Mrs. Francis B. Bracken, on premises. Frame, 1 story, 9x9 feet, porte cochere and pergola, slag roof, painting, plastering, carpentry and mill work. Architect taking bids due April 7th. A. L. Fretz & Son, Heed Building, and F. B. Davis, 240 North Sixteenth street, are figuring.

Store House, Navy Yard, Philadelphia. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Dismantling three hangars in New Brunswick, Ga., and erecting them as one building in Philadelphia. Steel construction, 1 story, 110x400 feet, concrete floors, concrete foundations, electric lighting, painting. Owners taking bids due April 7th. Stang & Mitchell, Real Estate Trust Building, Philadelphia, are figuring.

Moving Picture Theatre, 4049-51 Market street, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, E. C. Brown, 427 South Broad street, Philadelphia. Brick, concrete and steel, 1 story, 50x100 feet, slag roof, cement floors, steam heat, electric lighting. Plans in progress. Will be ready for bids in about one month.

Home (alts.), Torresdale, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Federation of Jewish Charities, Empire Building, Philadelphia. Carpentry, mill work, painting, glazing, plastering, metal lath. Architect has received bids.

Property (alts.), Twelfth and Girard avenue, Philadelphia. Architects, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Diskan Paint Co., 1122 Girard avenue, Philadelphia. Steel, brick work, plastering, slag roof, tile and marble work, carpentry and mill work, repairing heating, electric work. Architect has received bids.

Residence and Garage, Twelfth street, South of Oak Lane avenue, Oak Lane, Philadelphia. Architect, Carl P. Berger, South Penn Square Building, Philadelphia. Owner, Mrs. A. K. Ledig, care of architect. Stone, 2½ stories, 43x52 feet, and 1 story, 23x31 feet, slate roof, hardwood floors, hot water heat, electric lighting, plumbing, tile work, cement work. Plans about completed. Architect will be ready for bids in about one week.

Fire Tower, Northwest Corner Sixth and Market streets, Philadelphia. Architects, Hance, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, name withheld. Brick or hollow tile, 4 stories. Plans in progress.

Store, Germantown, Philadelphia. Architect, Gabriel B. Roth, 1619 Chestnut street, Philadelphia. Owner, Albert L. Frey, 4625 Old York road, Philadelphia. Brick and terra cotta, 1 story, 18x50 feet, slag roof, electric light. Preliminary plans in progress.

Residences (21), Sixth street and Northeast Boulevard, Philadelphia, $233,000. Architect, private plans. Owner, R. W. Troenmer, 3134 North Broad street, Philadelphia. Brick, 3 stories, 16x49 feet and 16x28 feet, 13½x20 feet, slag roof, hot water heat, electric lighting, hot water heating, tile work. Owner will build.

Dwellings (5), Fairhill street, South of Fishers avenue, Philadelphia, $25,000. Architect, private plans. Owner, Carl Metz, 315 Rockland street, Philadelphia. Brick, 2 stories, 14x30 feet, 11x10 feet, slag roof, hot water heat, electric lighting. Owner will build.

Moving Picture Tneatre, Torresdale avenue, South of Longshore street, $38,000. Architect, private plans. Owner, M. John Smith, 6852 Hegerman street, Philadelphia. Brick, 1 story, 75x180 feet, slag roof, steam heat, electric light, cement floors, metal lath, tile work, fire doors. Owner will build.

Dwellings (add.), 6000-02-04-42 Cobb's Creek Parkway, $8,000. Architect, private plans. Architect, Charles Armstrong, 5804 Baltimore avenue, Philadelphia. Brick, third story add., 16x36½ feet. Owner will build.

Residences (25), Sixty-third and Greenway avenue, Philadelphia, $150,000. Architect, private plans. Owner, Harry P. Collins, 230 North Fifty-third street, Philadelphia. Brick, 2 stories, 15x38 feet and 15x25 feet, 12x13 feet, steam heating, electric lighting. Owner will build.

Residence and Store, South side Chestnut street, West of Fifty-fifth street, $1,000. Architect, private plans. Owner, Charles L. Vetter, 6110 Haverford avenue, Philadelphia. Brick, 2 stories, 60x41 feet, 4x4 feet. Owner will build.

Officers' Quarters, Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Brick, 2½ stories, stone foundations, slate roof, pine and oak floors, hot water heat, electric light, tile work. Owners taking bids due April 13th. Monaghan & Losse, Inc., 3016 Chestnut street, are figuring.

Factory Building, Mill Lane and Frankford Creek, Philadelphia. Architect, private plans. Owners, Philadelphia Felt Co., on premises. Brick, steel and concrete, 1 story. Owners taking bids due April 13th. William H. Eddleman & Sons, 413 Green Lane, Roxborough, and Edw. T. Bender, 6014 Torresdale avenue, are figuring.

Balcony, Small Arms Ammunition Department, Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Structural steel and concrete, concrete floors. Owners taking bids due April 15th. Monaghan & Losse, Inc., 3016 Chestnut street, are figuring.

Foundry, Warehouse and Office Building, Walnut street, Thirtieth to Thirty-first streets. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, H. A. May Foundry Co., Sixty-first and Eastwick avenue, Philadelphia. Reinforced concrete, 1 and 6 stories, undecided as to size, slag roof, cement floors, hollow tile, elevators, steam heat, electric light, rolled steel sash. Plans in progress. Too early for details.

Building (alts. and add.), Allen Lane, Mt.



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Airy, Philadelphia. Architect, Herbert J. Wetherill, 430 Allen Lane, Mt. Airy, Philadelphia. Owner, Cresheim Arms Co., on premises. Brick and steel, 1 story, 32x62 feet, slag roof, composition and pine floors, stone foundations, electric lighting, metal lath, ornamental iron work. Architect taking bids due April 9th. H. E. Baton, 1713 Sansom street; W. Wright, 22 Harvey street; I. A. Dunkelberger, 71 E. Herman st.; Stokes Bros., 6723 Musgrave street; Harvey W. Schock, 12 West Mt. Airy avenue; Wolverton Co., 28 East Willow Grove avenue, and F. Elvidge & Son, 5222 Germantown avenue, are figuring.

Hotel (extension), Broad and Locust streets, Philadelphia. Architect, Albert Morton Gray, 1400 Broadway, New York City. Owners, Hotel Walton, Broad and Locust streets, Philadelphia. Steel, brick, concrete, terra cotta, 24 stories, 130x70 feet, slag roof, maple and marble floors, concrete foundations, tile and terrazzo work, ornamental iron work, brick lath (heating, electric work, elevators and plumbing reserved). Architect has received bids.

Intake House, Queen Lane Pumping Station, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Bureau of Public Property, care of Director John C. Winston, Room 216, City Hall, Philadelphia. Brick, steel and terra cotta, 1 story, 55x30 feet, slate roof, cement floors, stone foundations, rolled steel sash, hollow metal doors, electric lighting. Bids submitted. Kober Const. Co., 34 South Seventeenth street, Philadelphia, $31,271; Geo. H. Dading, Bellevue Court Building, Philadelphia, $36,950.

Store and Residences (alts.), Southeast Corner Twelfth and Girard avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Nathan Diskan, 1122 Girard avenue, Philadelphia. General alterations. Architect has received bids.

Residences and Garages (33), Cobb's Creek Boulevard, Ellsworth and Sixty-second streets, Philadelphia, $356,000. Architect, private plans. Owner, Oler & Shapiro, Fifty-seventh and Master streets, Philadelphia. Brick, 3 stories, 26x28 feet 10 inches and 16x22 feet, 16x34 feet, 13x9 feet, hot water heat, electric light, slag and oak floors. Owners will build.

Residences (16), Roosevelt Boulevard, Wakeling to Pratt streets, $172,000. Architect, private plans. Owner, Harry Moyer, 2035 East Allegheny avenue, Philadelphia. Brick and stucco, 2 stories, 18x34 feet, 20x16 feet, hot water heat. Owner will build.

Residences (5), Fairhill street, South of Fisher's avenue, $25,000. Architect, private plans. Owner, Carl Metz, 315 West Rockland street, Philadelphia. Brick, 2 stories, 14x30 feet, 11x10 feet, hot water heat. Owner will build.

Factory, Westmoreland near Salmon street, Philadelphia. Architect, Frederick Wurster, 6145 Webster street, Philadelphia. Owner, The Monarch Co., care of architect. Brick, 1 story, 34x40 feet, slag roof, cement floors, stone foundations, steel sash, electric light, ornamental iron work. Architect has received bids.

Residence (alts.), 905 Clinton street, Philadelphia. Architects, Stewardson & Page, 320 Walnut street, Philadelphia. Owner, Thornton Oakley, Esq., on premises. Changing studio into fourth flooor, carpentry, mill work, hardware, painting, iron work. Architects taking bids due as soon as possible. William R. Dougherty, 1610 Sansom street, and F. E. Wallace, 1220 Chancellor street, are figuring.

Tank Tower, Seventeenth and Lehigh avenue, Philadelphia. Architect, Amos W. Barnes, 1507 Arch street, Philadelphia. Owners, Frishmuth Bros., Seventeenth and Lehigh avenue, Philadelphia. Brick work, iron work, slag roof. Architect has received bids.

Factory, Seventy-third and Elmwood avenue, Philadelphia. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Flexible Metallic Tubing Co., Broad and Race streets. Brick and steel, 2 stories, 110x44 feet, slag roof, maple and cement floors, metal lath, stone foundations, iron work. Owners taking bids due April 7th. E. J. Kreitzburg, 1345 Arch street, and E. R. Hall, 34 South Seventeenth street, are figuring.

Residence (alts. and add.), 1806 Erie avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Solomon B. Levy, care of architect. Brick, 2 stories, 15x10 feet, slag roof, oak floors, metal lath, stone foundations, heating extensin, electric work, tile and marble work, metal lath. Architect has received bids.

Cooperage Building, Water street and Snyder avenue, Philadelphia. Architect, private plans. Owners, Publicker Commercial Alcohol Co., on premises. Brick and steel, second story add., 50x100 feet, slag roof, pine floors, rolled steel skylights, iron work. Owners have received bids.

Office, Show Room and Service Building, N. E. Cor. Broad and Lehigh avenue, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Traylor Service Eng. and Mfg. Co., care of architects. Architects taking bids, due April 20th. Monaghan & Losse, Inc., 3016 Chestnut street; Cramp & Co., Denckla Building; Warren-Moore Co., Colonial Trust Building; Barclay White Co., 1713 Sansom street; Philip Haibach Cont. Co., Twenty-sixth and Thompson streets; Ketcham & McQuade, 1029 Brown street; Turner Const. Co., 1713 Sansom street, and Hughes-Foulkrod Co., Commonwealth Building, Philadelphia ,are figuring.

Weave Shed, Twenty-fifth and Westmoreland streets, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Sydney Worsted Mills, Howard and Palmer streets, Philadelphia. Architects taking bids, due April 21st. Philip Haibach Cont. Co., Twenty-sixth and Thompson streets; Ketcham & McQuade, 1029 Brown street; F. B. Davis, 2400 North Sixteenth street; Robert E. Lamb Co., 843 North Nineteenth street; Cramp & Co., Denckla Building; Warren-Moore Co., Colonial Trust Building, and Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Residence (alts.), 1603 Venango street, Philadelphia, **and Store.** Architect, Wm. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Chas. H. Phelps, 1532 Venango street, Philadelphia. Reinforcing front walls, underpinning, cement and pine floors, plastering, metal ceilings, flush bulks. Owner taking sub-bids.

Store (add.) and Garage, 2613 Germantown avenue, Philadelphia. Architect, Wm. H. Wooters, 816 West Allegheny avenue, Phila-

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delphia. Owners, Enterprise Fruit Co., on premises. Brick, 1 story, 35x18 feet and 18x25 feet, slag roof, pine and cement floors, stone foundations, hot water heat, electric lighting. Owner ready for bids in a week.

Offices and Residence (alts.), N. W. Cor. Seventeenth and Erie avenue, Philadelphia. Architect, Wm. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Dr. Leslie M. Craver, on premises. Brick, 3 stories, store in basement, concrete and pine floors, plumbing, electric work, copper bay window, plate glass. Ready for bids in a few days.

Factory, Fifty-seventh and Summer streets, Philadelphia. Architect, private plans. Owners, Philadelphia Mineral Flg. Co., P. H. Kelly, president, 5632 Summer street. Brick, slow burning construction, 2 stories, 60x100 feet, slag roof. Standard Const. Co., 1713 Sansom street, taking preliminary sub-bids.

Fire Tower, N. W. Cor. Sixth and Market streets, Philadelphia. Architect, C. J. Mitchell, 1619 Chestnut street, Philadelphia. Owners, Snyder Bros., on premises. Brick or hollow tile, 4 stories. Architect taking bids, due April 7th. J. H. Feeser, Liberty Building, is figuring.

Building (alts.), 1901 Market street, Philadelphia. Architect, H. J. Feeser, 1011 Liberty Building, Philadelphia. Owners, Lewis & Miller, 1901 Market street, Philadelphia. General alterations. Architect taking bids, due April 7th. J. H. Feeser, Liberty Building, Philadelphia, is figuring.

Residence (alts.), 208 North Thirty-fourth street, Philadelphia. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owner, Dr. John G. Fuller, on premises. Roof repairs, metal work, carpentry, mill work, plastering, electric work, painting, glazing, plumbing, modulation system of heat. Architects taking bids, due April 10th. H. E. Grau Co., 1709 Sansom street; Ketcham & McQuade, 1029 Brown street; P. Haibach Cont. Co., Twenty-sixth and Thompson sts., and Pomeroy Const. Co., 1609 Ranstead street, are figuring.

Residence (alts. and add.), 614 South Eleventh street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Samuel W. Salus, on premises. Hot water heating, electric lighting, tile work, oak floors, change partitions, plumbing. Plans in progress. Solomon Bros., Twelfth and Wingohocking streets, Philadelphia, will take sub-bids.

Store and Apartments, N. W. Cor. Fifth and South streets, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, Harry Krengle, N. E. Cor. Fifth and South streets, Philadelphia. Brick, 2 stories, 40x46 feet, slag roof, marble and plate glass front, composition floors, steam heat, electric lighting, cabinet work. Plans about completed. Architect will be ready for bids April 7th.

Store and Aparments (alts. and add.), Eleventh and Girard avenue, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, M. Baum, on premises. Brick, 4 stories, general alterations from residence to apartments. Architect ready for bids in one week.

Dwellings (44), Fairhill and Chew streets, Philadelphia, $319,000. Architect, private plans. Owner, Chas. G. Erney, N. E. Cor. Eighth and Rockland streets. Brick, 2 stories, 15½x45 feet and 15½x30 feet, 12x12 feet, slag roof, hot water heat, electric lighting. Owner will build.

Garage, 542 Carpenter street, Germantown, Philadelphia, $7,000. Architect, private plans.

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Owner, Levi Cartwell, 655 West Johnson st., Germantown, Philadelphia. Brick, 1 story, 45x84 feet, slag roof, cement floors, electric light. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory (add.), Southwest Corner Jasper and Ontario streets, $70,000. Architect, private plans. Owners, Bush & Diamond, on premises. Brick, 4 stories, 42½x144 feet and 10x30 feet, slag roof, steam heat, electric light, pine floors. Contract awarded to D. O'Dea, 5227 North Fifth street, Philadelphia.

Garage (alts.), 6800 Quincy street, Philadelphia, $90,000. Architect, private plans. Owner, Abe Dratch, 5741 Christian street, Philadelphia. General alterations and additions. Contract awarded to J. M. Kennedy, Jr., 406 Van Pelt street, Philadelphia.

Residence, 5939 North Hutchinson street, Philadelphia, $6,000. Architect, private plans. Owenr, Herman Weiss, 5937 North Hutchinson street, Philadelphia. Brick, 2 stories, 16x54 feet, slag roof, hot water heat, electric light, hardwood floors. Contract awarded to Otto Malz & Son, 2108 North Lawrence street.

Garage, 617 West Hortter street, Philadelphia, $5,000. Architect, private plans. Owner, E. M. Kauffman, on premises. Stone, 1 story, 22½x30 feet, slate roof, electric light, cement floors. Contract awarded to P. M. Sax, Franklin Bank Building, Philadelphia.

Residence, 5630-32 North Mascher street, Philadelphia, $4,000. Architect, private plans. Owner, Lawrence Pelkington, Rising Sun avenue and Fisher's lane. Brick, 2 stories, 32x38 feet, slag roof, hot water heat, electric light. Contract awarded to J. L. Lous, Fifteenth and Hunting Park avenue.

Store and Dwelling (alts.), 914 North Second street, $4,000. Architect, private plans. Owner, Samuel Slutsky, 914 North Second street, Philadelphia. New front, electric light, hardwood floors, glazing. Contract awarded to B. Sherman, 874 North Sixth street, Philadelphia.

Residences (2) **(add.)**, 1609-11 Erie avenue, $6,000. Owner, Isaac Leblang, Eleventh and Lehigh avenue, Philadelphia. Brick, 2 story add., 16x13 feet. Contract awarded to John E. Spitz, 243 North Eleventh street, Philadelphia.

Offices (alts. and add.), 335 North Second street, Philadelphia. Architect, private plans. Owners, Marcus Stern Co., 337 North Second street, Philadelphia. Brick work, slag roof, electric light, mill work, stair work, wire screens, plastering, painting, plate glass. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Factory, South side of Baring street, West of Thirty-eighth street, $10,000. Owner, William H. Hoffman, Finance Building, Philadelphia. Brick, 1 and 2 stories, irregular size, slag roof, electric light, cement floors. Contract awarded to P. M. Sax, Franklin Bank

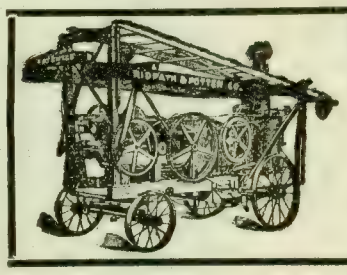


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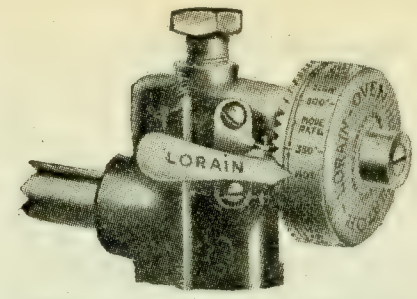


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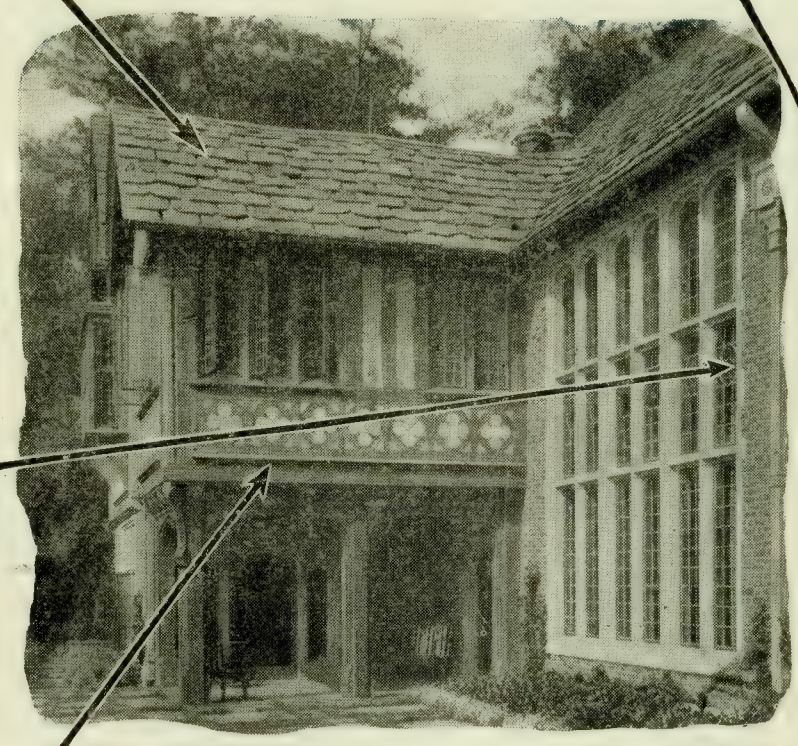
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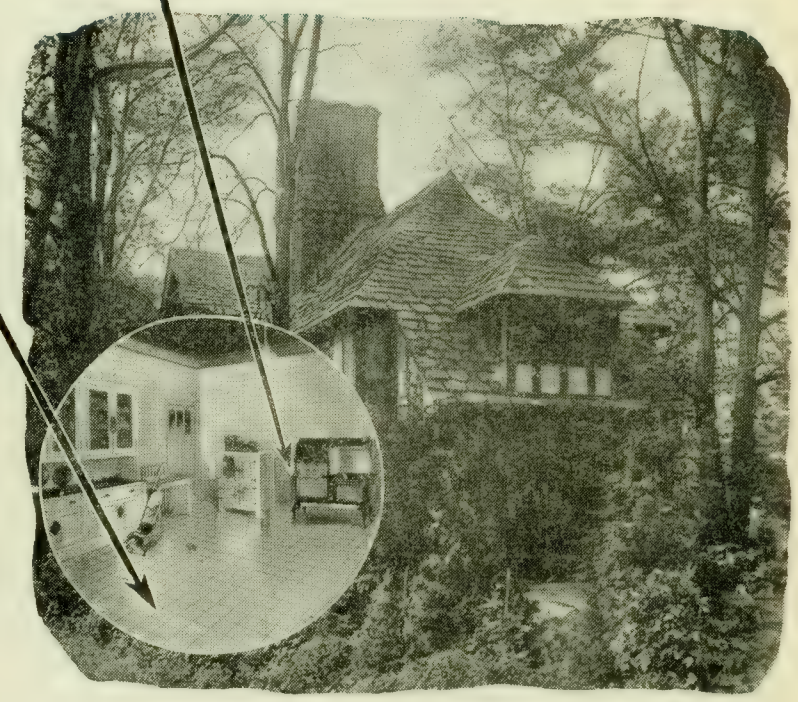
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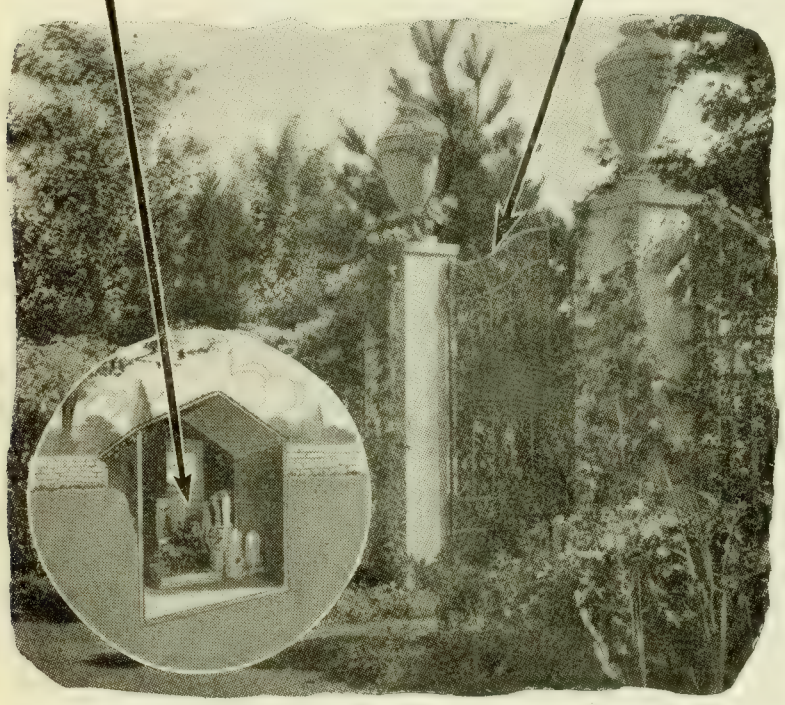
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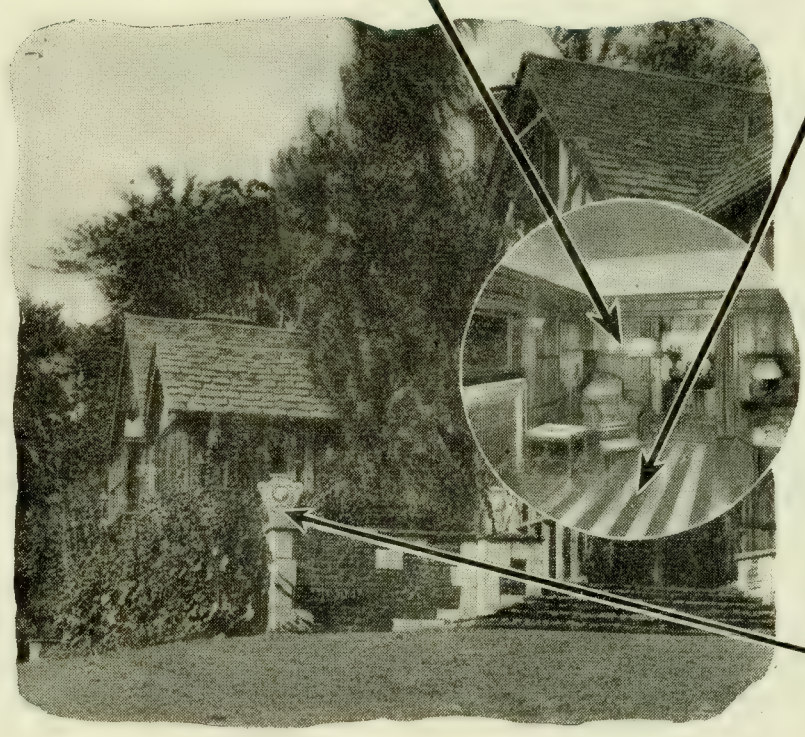
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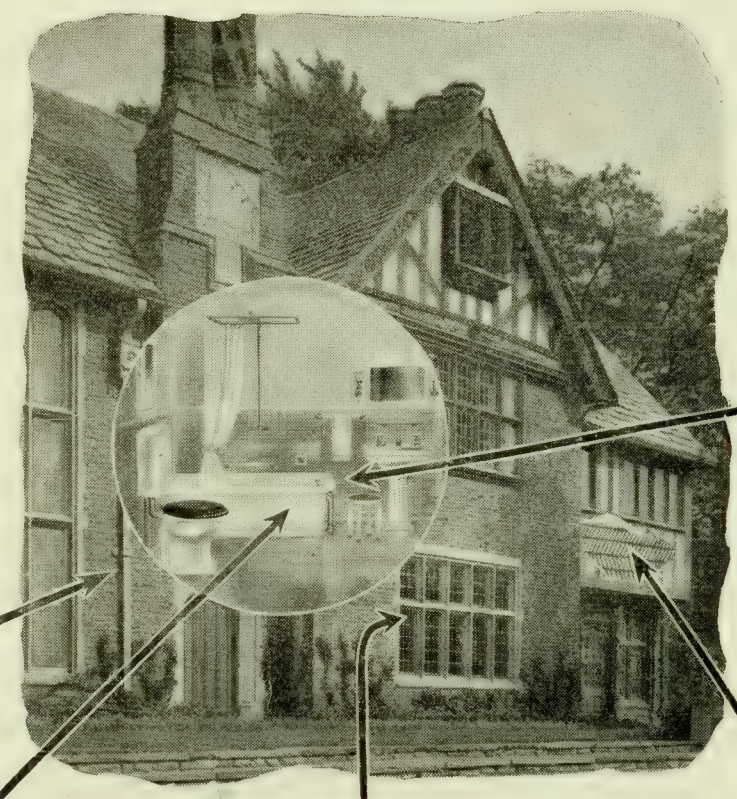


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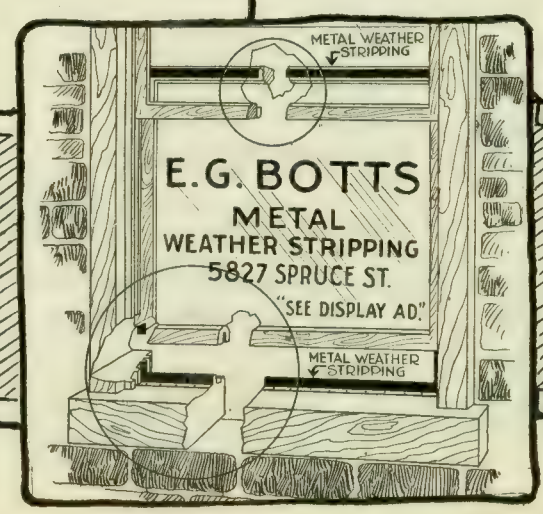


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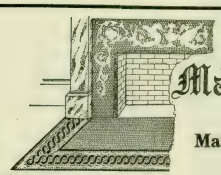
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Building.

Store, Northeast Corner Eighty-first and Eastwick avenue, Philadelphia, $7,000. Architect, private plans. Owner, James Weeber, Northwest Corner Eighty-first and Eastwick avenue, Philadelphia. Brick, 1 story, 23½x100 feet, slag roof, pine floors, electric light. Contract awarded to Fred Paulson, Island road, Philadelphia.

Garage (fire repairs), 220 South Fortieth street, Philadelphia, $5,000. Architect, private plans. Owners, Passavant Bros., on premises. Carpentry, mill work, glazing, painting, plastering, electric work. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Garage, Store and Storage (alts.), 3120 Market street, Philadelphia, $9,000. Architect, private plans. Owners, 20th Century Storage Co., 3120 Market street, Philadelphia. Interior and exterior alterations, brick work, carpentry, mill work, slag roof, repairs, electric work. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

Office Building, Northeast Corner Sixteenth and Sansom streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Keller Eng. Corp., Inc., Otis Building, Philadelphia. Brick, terra cotta, steel and concrete, 4 stories, 20x56 feet, slag roof, composition and maple floors, metal lath, elevators, safety treads, waterproofing, iron work, stone foundations, tile and marble work, rolled steel skylights, fire and kalamein doors (heat and electric work reserved). Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Office Building, 113 West Dauphin street, Philadelphia. Architects, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, Edward Grubb, 1914 Dauphin street, Philadelphia. Brick, 1 story, 17x40 feet, slag roof, pine floors, hot water heat, electric lighting, stone foundations. Contract awarded to C. Nelson Rochell, 217 Northeast Boulevard, Philadelphia.

Mill Building, Southeast Corner Janney and Butler streets, Frankford Junction, Philadelphia. Architect, Carl P. Berger, South Penn Square Building, Philadelphia. Owners, Belmont Packing & Rubber Co., 133 North Second street, Philadelphia. Brick, 1 story, 130x119 feet, slag roof, concrete floors, rolled steel sash, hollow metal skylights, stone foundations (heating and electric work reserved). Contract awarded to Hogg Const. Co., Denckla Building, Philadelphia.

Residence and Garage, Eighth and Chelten avenue, Oak Lane, Philadelphia. Architect, Richard R. Neely, 1619 Chestnut street, Philadelphia. Owner, Robert Bell, care of architect. Stone, 2½ stories, 26x39 feet and 25x23 feet, shingle roof, hot water heating, electric lighting, oak floors, cement work. Contract awarded to Clement E. Lloyd, Jr., 6600 North Eighth street, Philadelphia.

Store and Dwelling (add. and alt.), 1609 West Passyunk avenue, $5,000. Architect, private plans. Owner, Joseph Krell, 1705 Snyder avenue, Philadelphia. Brick, 1 story, 10 feet 9 inches x8 feet 6 inches, general alterations. Contract awarded to H. F. Dinkleacker, 1612 McKean street, Philadelphia.

Garage (add.), 1528 North Camac street, Philadelphia, $3,500. Architect, private plans. Owner, George Parker, 1529 North Thirteenth street, Philadelphia. Brick, second story add., 18x35 feet. Contract awarded to McFarland & Brace, 2615 Hagert street.

Manufacturing Building (alts.), C street

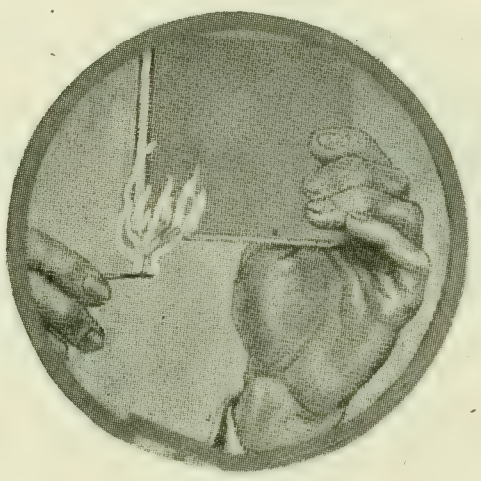
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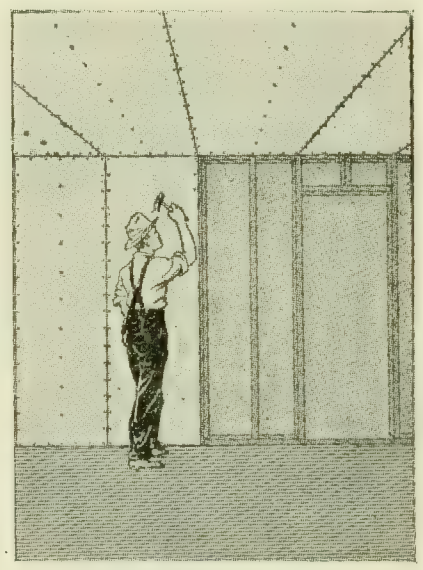
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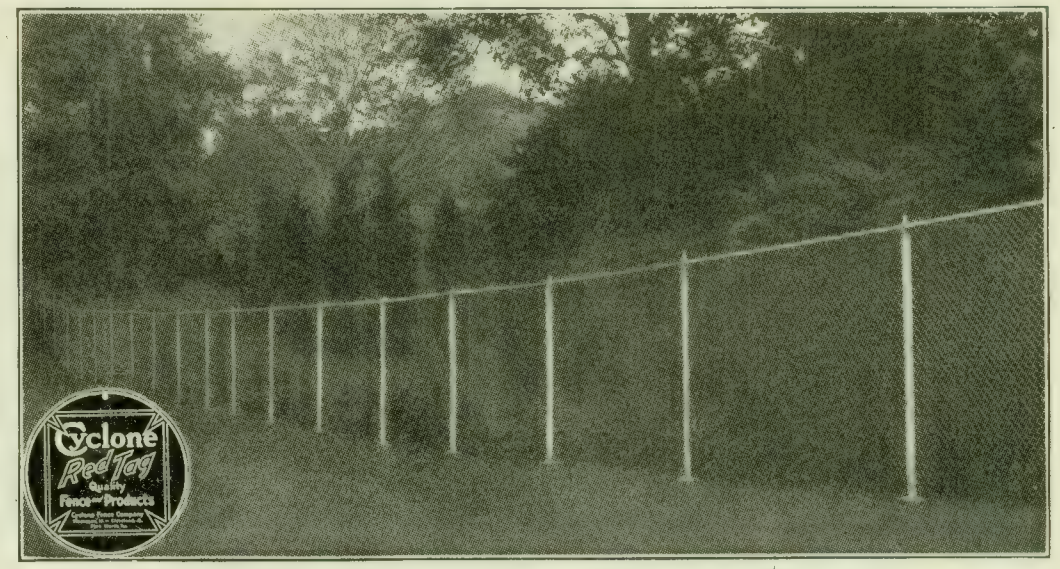
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and Ontario street, $3,500. Architect, private plans. Owner, Phila. Storage Battery Co., on premises. General fire repairs. Contract awarded to Stewart Bros. Co., 2526 North Orkney street.

Boiler House (alts.), Unruh and Milner streets, $3,000. Architect, private plans. Owner, Erben-Harding Co., on premises. New roof. Contract awarded to William Steele & Sons Co., Sixteenth and Parkway, Philadelphia.

Store (alts.), Southeast Corner Third and Market streets, Philadelphia, $13,000. Architect, private plans. Owner, United Cigar Co., 44 West Eighteenth street, New York. General alterations. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Residence and Store (alts.), Front and Kensington avenue, $3,000. Architect, private plans. Owner, Sam. Schwartz, 2406 Kensington avenue, Philadelphia. General alterations. Contract awarded to Birkelbach Company, 4608 Richmond street.

Garage, 1016 Seventieth avenue, Philadelphia, $2,800. Architect, private plans. Owner, H. L. Nelke, on premises. Brick, 1 story, 20x22 feet, cement floors, electric lighting. Contract awarded to Frederick Shrieber, 1306 City Line.

Storage Building, Southeast Corner Seventh and Noble streets, $2,750. Architect, private plans. Owner, General Electric Co., on premises. Iron, 1 story, 14½x60 feet 3 inches. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Building (add.), Delaware avenue and Mifflin street, Philadelphia. Architect, private plans. Owners, David Berg Industrial Alcohol Co., on premises. Brick and steel, 2 stories, 24x18 feet, slag roof, pine floors, stone foundations (heating, electric work and plumbing reserved). Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Garage, 530 Pine street, Philadelphia. Architect, private plans. Owner, Dr. William Samueli, on premises. Brick, 1 story, 17x21 feet, slag roof, stone foundations, hot water heat, electric lighting, cement floor. Contract awarded to George H. Evans, 45 North Thirteenth street, Philadelphia.

Garage, Coulter street, West of Fox street, $3,000. Architects, Hawley & Hawley, Midvale avenue and Stokley street, Philadelphia. Owner, Frank H. Burpee, 1814 Venango street, Philadelphia. Brick, 1 story, 19½x25 feet, slag roof, cement floor, electric light. Contract awarded to William C. Wright, 22 Harvey street, Philadelphia.

Dwelling (add.), 3700 Pulaski avenue, $2,500. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Isaac Leblang, Eleventh and Lehigh avenue, Philadelphia. Brick, 2 stories, 16x13 feet, slag roof, cement floors. Contract awarded to John E. Spitz, 243 North Eleventh street, Philadelphia.

Residence, St. Martin's, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, William C. Hesse, Jr., 1817 North Twenty-fourth street, Philadelphia. Hollow tile and stucco, 2½ stories, 28x50 feet, wing 20x28 feet, slate roof, oak floors, tile and marble work, electric lighting, hot water heating. Contract awarded to F. Elvidge & Son, 5522 Germantown avenue, Philadelphia.

Store and Dwelling (alts.), 2645 West Lehigh avenue, Philadelphia, $3,000. Architect, private plans. Owner, Frank Haimbach, 2640 West Lehigh avenue, Philadelphia. General alterations. Contract awarded to C. E. Sterner, 2637 West Somerset street, Philadelphia.

Residence, Stratford Road and Kitchen Lane, Germantown, Philadelphia. Architect, Robert Rhodes McGoodwin, 1422 Walnut st., Philadelphia. Owner, Hollis Wolstenholme, 10 Chestnut street, Philadelphia. Stone, 2½ stories, 102x48 feet, shingle roof, oak and pine floors, stone foundations, hot water heat, electric lighting, tile work. Contract awarded to Wolverton & Co., 28 East Willow Grove avenue.

Residence (alts. and add.) and Garage, Oak Lane, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Edwin M. Dannenbaum, Mountain avenue, Oak Lane, Philadelphia. Stone, general alterations, 1 and 1½ stories, 18x6 feet. Garage, 33x23 feet, slag and slate roof, pine, oak and cement floors, metal lath, stone foundations, tile and marble work, metal lath (plumbing, heating and electric work reserved). Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

Storage Building, Nixon street, west side, north of Fountain street, $33,000. Architect, private plans. Owners, Dill & Collins, Richmond and Tioga streets, Philadelphia. Brick, 3 stories, 109x31 feet, slag roof, electric lighting, steam heating, cement and pine floors. Contract awarded to Wm. Steele & Sons Co., 1600 Arch street, Philadelphia.

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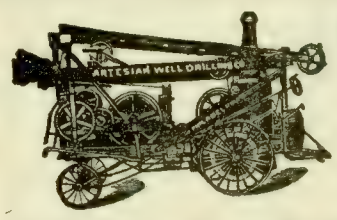
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Wood streets, Philadelphia, $30,000. Architect, private plans. Owners, Ford & Kendig, on premises. Brick, concrete and steel, 2 stories, 96x123 feet and 106x67½ feet, slag roof, electric light, concrete floors, steel sash, rolled steel skylights. Contract awarded to Wm. E. Hale, 1636 Ludlow street.

Store and Rooming House (alts. and add.), 1713 Walnut street, Philadelphia. Architect, private plans. Owner, Charles Keen, on premises. Brick and steel, 1 story, 8x38 feet, slag roof, steam heat, electric light, pine floors, metal lath, hollow metal skylights, roof ventilators, iron work. Contract awarded to Frank E. Wallace, 1220 Chancellor street, Philadelphia.

Stores and Apartments, 2846-48 North Fifth street, Philadelphia, $6,700. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owners, Bell Market Co., Fifth and Cambria sts., Philadelphia. Brick, 3 stories, 36½x78 feet, slag roof, pine floors, hot water heating, electric light, marble work, flush bulks, metal ceiling. Contract awarded to M. Gold, 1643 North Thirty-third street, Philadelphia.

Factory (add.), Roxboro, Philadelphia, $8,000. Architect, private plans. Owners, Quaker Lace Co., Fourth and Lehigh avenue, Philadelphia. Brick and steel, 2 stories, 32x50 feet, slag roof, pine floors, stone foundations. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

PENNSYLVANIA Construction News

Theatre (alts.), Fourth and Penn streets, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Grand Theatre, Mr. Kantner, Fourth and Penn streets, Reading, Pa. New interior work, maple floors, electric light, tile, marble and terrazzo work, hollow metal sash, roof ventilators. Plans in progress.

Bank (alts.), Fleetwood, Pa. Architect, W. M. High, 11 North Fifth street, Reading, Pa. Owner, First National Bank of Fleetwood, Mr. Ketchner, Fleetwood, Pa. General alterations to second and third floors, maple floors, tile work, tile walls and floors, vault. Plans in progress.

Residence, Manheim, Pa. Architect, Calvin Young, 520 Washington street, Reading, Pa. Owner, Mr. Fisher, 900 Franklin street, Reading, Pa. Stucco, 1½ stories, 30x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will take bids.

Garage (add.), Fleetwood, Pa. Architect, W. M. High, 11 North Fifth street, Reading, Pa. Owner, Fleetwood Motor Car Co., care of Nolan & Schaeffer, Philadelphia. Brick, 2 stories, 50x33 feet, stone foundations, slag roof, wood floors, electric light. Owner will sublet.

Store (add.), Reading, Pa. Architect, A. T. Smith, Sixth and Court streets, Reading, Pa. Owner, Ellis Mills, 630 Penn street, Reading, Pa. Brick, third story add., 30x100 feet, raising roof. Owner will take sub-bids.

House, Palmyra, Pa. Architect, A. A. Ritcher, Sixth and Court streets. Owner, D. Y. Landes, Palmyra, Pa. Brick, 2½ stories, 39x40 feet, concrete foundations, slate roof, hardwood floors, vapor heat, electric light, tile work. Owner taking sub-bids.

Factory, Pottsville, Pa. Architect, F. X. Reilly, 112 South Centre street, Pottsville, Pa. Owners, Bob & Baskind, 40 Leonard street, New York. Brick, structural steel, 4 stories, 112x60 feet, Barrett roof, concrete floors, hollow metal skylights, roof ventilators, asbestos ceilings, iron stairs. Architects taking bids due as soon as possible. Beard Const. Co., Reading, Pa., and Wertley Planing Mill Co., Pottsville, Pa., are figuring.

Bank (alts.) to Apartment, Bird and Maple streets, Mt. Carmel, Pa. Architect, Ritcher-Lee, Sixth and Court streets, Reading, Pa. Owner, Liberty St. Bank, care of Mr. Moleski, Mt. Carmel, Pa. General interior alterations, tile and marble work, vault, bank fixtures. Owner has received bids.

Printing Office, Shamokin, Pa. Architect, Ritcher-Lee, Sixth and Court streets, Reading, Pa. Owner, J. T. Shoener, Shamokin, Pa. Brick and steel, 1 story and basement, 58x75 feet, concrete foundations, composition roof, maple floors, steam heat, electric light, office equipment. Owner has received bids.

Church (add.), Narberth, Pa. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, Narberth Presbyterian Congregation, Narberth, Pa. Stone, 1 story, 65x140 feet, slate roof, hot air heat, electric light. Plans in progress.

School, Barren Hill, Pa. Architect, Edwin G. Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Whitemarsh Township School Board, Barren Hill, Pa. Brick and limestone, 1 story, 60x100 feet, wing 40x40 feet (contains 5 classrooms and auditorium), slate roof, gum floors, steam heat, electric lighting, stone foundations. Plans in progress. Will be ready for bids in three weeks.

Residence, Ridley Park, Pa. Architect, private plans. Owner, John McCarthy, care of builder. Brick, 2½ stories, 32x34 feet, slate roof, pine floors, hot water heat, electric light, tile work. Wolverton & Co., 28 East Willow Grove avenue, taking sub-bids due as soon as possible.

Sales and Service Building, Lansdowne, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, John L. Wetherill, Chester, Pa. Brick, terra cotta and steel, 1 story, 60x122 feet, slag roof, cement, maple and terrazzo floors, stone foundations, tile work, hollow tile, metal lath, rolled steel sash and skylights, roof ventilators, iron work (plumbing, heating and electric lighting reserved). Architects have received bids.

Surgical Building, Chester, Pa. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Chester Hospital, Chester, Pa. Brick, terra cotta, steel, 3 stories, slag and tile roof, cement, maple and terrazzo floors, tile and marble work, hollow tile, metal lath. Revised plans in progress. Architects will take new bids.

Residence, Berwyn, Pa. Architects, Hance, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, S. Alfred Ritner, Berwyn, Pa. Hollow tile and stucco, 2½ stories, 47x30 feet, shingle roof, oak floors, hot water heat, electric light, tile work. Plans in progress. Will be ready for bids in two weeks.

Residence, Bywood, Pa. Architects, Hance, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, Mr. Charles A. Gillingham,

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Twelfth and Morris streets, Philadelphia. Hollow tile and plaster, 2½ stories, 27x40 feet, shingle roof, oak floors, hot water heat, electric light, tile work. Plans in progress. Ready for bids in two weeks.

Residences (30), Gettysburg, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, Gettysburg Realty & Housing Co., Gettysburg, Pa. Brick, 2 stories, 34x40 feet, slag and asbestos shingle roofing, pine floors, hot air heat, electric light. Owner taking revised bids. Shamokin Lumber Cont. Co., Shamokin, Pa., are figuring.

Electrical Repair Shop, Johnstown, Pa. Architect, private plans. Owners, Cambria Steel Co., Johnstown, Pa. Brick and steel, 1 story, 240x60 feet, gypsum slab and plan roof, concrete foundations, steam heating, concrete and maple floors, rolled steel sash, iron stairs. Owners taking bids due April 12th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Factory, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, W. C. Bidlack, Wheatland avenue, Lancaster, Pa. Brick and steel, 3 stories and basement, 90x160 feet, slag roof, maple floors, iron stairs. Plans in progress.

House (alts.), Lancaster, Pa., $10,000. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, W. B. Long, Lancaster, Pa. General interior and exterior alterations, shingle roof, hardwood floors, tile work. Plans in progress.

Apartment House (add. and alt.), York, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, name withheld. Brick, 3 stories, 26x130 feet, concrete foundations, slag roof, hardwood floors, steam heat, electric light, tile work, interior and exterior alterations. Architect taking bids. C. A. Boyer, Hess Bros., G. W. A. Gilbert and S. F. Gladfelter, all of York, Pa., are figuring.

Lodge Building, Ninth and Welsh streets, Chester, Pa. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, Tall Cedars of Lebanon, Penn Forest, No. 21, 604 Ninth street, Chester, Pa. Reinforced concrete, brick and stone, 6 stories, 100x120 feet (irregular), slag roof, marble, terrazzo and cement and pine floors, steam heat, electric lighting, tile work, hollow tile, metal lath, 2 elevators, hollow metal sash and doors, ventilators. Architect taking bids, due April 15th. Cramp & Co., Denckla Building, Roydhouse-Arey Co., Broad street; Warren Moore Co., Colonial Trust Building; Chester Const. Co., Chester Pa., and Wm. Provost, Jr., Chester, Pa., are figuring.

School, Danville, Pa., $150,000. Architects, Ritcher Lee Co., 32 South Seventeenth street, Philadelphia. Owners, Danville School Board, care of secretary, Daniel Reese, and Dr. C. Schultz, president, Danville, Pa. Brick, stone, fireproof, 2 stories and basement, slag roof, steam heating, electric lighting, hollow tile. Plans in progress. Too early for details.

Factory (add.), Pocono, Pa. Engineers, Karno-Smith Co., Broad Street Bank Building, Trenton, N. J. Owners, Pocono Rubber Cloth Co., Wm. Bowman, president, Pocono, Pa. Brick, steel and concrete, 1 story, 40x50 feet, 200x20 feet and 40x60 feet, concrete floors, high pressure heating, electric lighting. Engineers taking sub-bids.

Church and Sunday School, Sunbury, Pa., $250,000. Architects, Ritcher-Lee Co., 32 S. Seventeenth street, Philadelphia. Owners, Zion Lutheran Church, care of Rev. Bowers, Sunbury, Pa. Stone, 1 story, 75x200 feet, slate roof, steam heat, electric light. Preliminary plans in progress. Too early for details.

Pennsylvania Contracts Awarded

Store (alt. and add.), Penn street, Reading, Pa., $50,000. Architects, Mills & Son, Detroit, Mich. Associate architects, A. A. Ritcher & Lee Co., Sixth and Court streets, Reading, Pa. Owner, Kresge Co., Detroit, Mich. Brick, 2 stories, 40x270 feet, composition roof, maple floors, steam heat, electric light, tile work, rolled steel sash, hollow metal skylights, roof ventilators, metal ceilings. Contract awarded to Andrew J. Fink, Reading, Pa.

Bank, Shippensburg, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, Peoples Bank, G. W. Hines, president, Shippensburg, Pa. Brick, 1 story, 56x53 feet, concrete foundations, slag roof, hardwood floors, vapor heat, electric light, tile floors, marble work, bank fixtures, metal window guards. Contract awarded to Charles Cump, Chambersburg, Pa.

Houses (40), York, Pa. Architects, Gimmel & Billmeyer, Rosemiller Building, York, Pa. Owners, York Home Building Exchange, care of Max Grumbacher, York, Pa. Brick and stucco, 2 stories, various sizes, pine floors, hot air heat, electric light. Contract awarded to L. D. Menough, York, Pa.

Bridge, Oley street, Reading, Pa. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Steel and concrete, waterproofing. Contract awarded to Bennett & Randall, Lebanon, Pa.

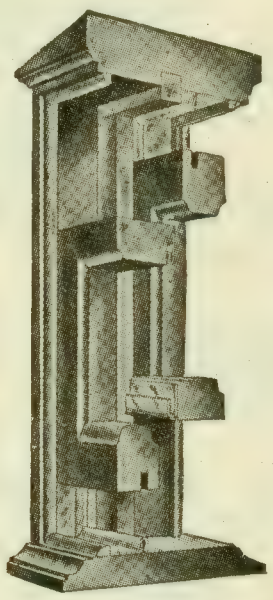
Garage, Merion, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion School Board, Merion, Pa. Brick, 1 story and basement, 28x86 feet, slate roof, cement and pine floors, stone foundations (heating, electric work and plumbing separate bids. Contract awarded to Penn Const. and Eng. Co., Bulletin Building, Philadelphia.

New Jersey Construction News

Residence and Garage, Interlaken, N. J. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, G. A. Lyon, 4609 Kingsessing avenue, Philadelphia. Hollow tile and plaster, 2½ stories, 26x50 feet, one story, 22x22 feet, slate roof, oak and cement floors, hot water heat, electric light, tile work. Plans in progress.

Theatre Building and Apartment House, Moorestown, N. J. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, Criterion Theatre, Moorestown, N. J. Brick and steel, 2 stories, 50x140 feet, slag roof, cement, pine and tile floors, marble work, steam heat, stone foundations, metal lath, roof ventilators, waterproofing, iron work. Architect and owner taking bids due April 10th. J. S. Rogers Co., Drexel Building; Ketcham & McQuade, 1029 Brown street, Philadelphia, are figuring.

Sales and Service Building, White Horse pike and Haddon avenue, Camden, N. J. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Packard Motor Car Co., 310 North Broad street, Philadelphia. Brick and steel, 3 stories, 72x142 feet, slag roof, tile and cement floors, marble and terrazzo



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work, metal lath, waterproofing, iron work, stone foundations, hollow metal sash and skylights, fire doors. Architect taking bids due April 13th. Potts Bros. & Cooperson, 129 North Eleventh street; Frank G. Stewart, 1619 Sansom street; A. R. Raff Const. Co., 1635 Thompson street; J. Sims Wilson Co., 1125 Brown street; Standard Const. Co., 1713 Sansom street; Mitchell Bros., 2125 Race street, Philadelphia; Geo. W. Shaner, Palmyra, N. J.; John M. Kelley Cont. Co., 507 Federal street, Camden, N. J., are figuring.

Office Building, Camden, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Camden Fire Insurance Association, Fifth and Federal streets, Camden, N. J. Too early for details. Architect selected. Preliminary plans in progress.

Sewage Disposal Plant, Pleasantville, N. J., $100,000. Architects, Remington & Vosbury, Camden, N. J. Owners, City of Pleasantville, care of Nehemia Andrews, City Clerk, Pleasantville, N. J. Plans and specifications will be ready in a few days. Owners will take bids due April 19th.

Hotel, Ventnor, Atlantic City, N. J. Architects, Horace Trumbauer, Land Title Building, and Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owners, Nemours Hotel Co., care of Gillespie Heeds Co., Dupont Building, Wilmington, Del. Brick, cut stone, terra cotta and steel, 12 stories, 204x232 feet, concrete foundations, steam heat, electric lighting, tile and marble work, terrazzo, maple and cement floors, copper skylights, hollow metal doors, iron stairs, iron work, metal lath, elevators, safety treads, metal weather strips. Owenrs taking bids due April 12th. Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; Warren-Moore Co., Colonial Trust Building; Standard Const. Co., 1713 Sansom street; Geo. Fuller Co., Widener Building; F. W. Mark Cont. Co., Commercial Trust Building, Philadelphia; Thompson-Starrett Co., 49 Wall street ,New York City, and John Gill & Son, Cleveland, O., city address, care of Bowden Const. Co., 1713 Sansom street, Philadelphia, are figuring.

Office Building, 328 Market street, Camden, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Albert S. Woodruff, 319 Market street, Camden, N. J. Brick, 3 stories, 20x96 feet, slag roof, pine floors, stone foundations, hollow metal skylights, iron work, roof ventilators (heating and electric work reserved). Architect taking bids due April 9th. J. M. Yardley, 1716 Sansom street; J. W. Draper, Camden, N. J.; Baldwin Const. Co., Camden, N. J., and Wills-Ludwick Co, 1706 Sansom street, Philadelphia, are figuring.

Apartment House (2 family), Ventnor, N. J. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Wm. C. Stanton, 1328 Walnut street, Philadelphia. Frame, 2½ stories, 32x28 feet, slate roof, pine floors, stone foundations, electric light, tile work, metal lath, iron work. Architects taking bids, due April 12th. ills-Ludwick Co., 1706 Sansom street, and M. H. McCloskey, Jr., Inc., 1620 Thompson street, are figuring.

Store (add.), State street, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton. Owner, Louis Levin, State street, Trenton, N. J. Brick, 4 stories, 50x26 feet, stone foundations, slag roof, tile and pine floors, heating extension, electric light, marble work, metal ceilings. Plans in progress.

Garage, South Broad street, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owner, H. Goldberg, South Broad street, Trenton, N. J. Cement block, 1 story, 50x100 feet, slag roof, cement floors, steam heat, electric light. Plans in progress.

Store and Loft Building, Front street, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owner, Samuel Krueger, Front street, Trenton, N. J. Brick, limestone, 2 stories, 25x100 feet, stone foundations, slag roof, tile and cement floors, steam heat, electric light, tile and marble work, plate glass. Architect ready for bids.

School, Farmville, Burlington City, N. J. Architect, H. A. Brown, River Bank, Burlington, N. J. Owners, Burlington Board of Education, care of W. E. Ridgway, Burlington, N. J. Brick, 1 story and basement, 83x25 feet and 36x52 feet, stone foundations, slate roof, steam and hot water heat, electric light, maple floors, hollow tile, metal lath. Owners taking bids, due April 19th at 8.30 P. M. George W. Shaner & Son, Palmyra, N. J., figuring.

Factory, Whitehead Road, Trenton, N. J. Engineers, Karno-Smoth Co., Broad Street Bank Building, Trenton, N. J. Owners, Thermoid Rubber Co., on premises. Reinforced concrete, 2 stories and basement, 80x200 feet, concrete roof and floors, vacuum heating, electric lighting. Engineers taking sub-bids.

Residence (alts. and add.), Haddonfield, N. J., $4,000. Architect, W. W. Sharpley, 1713 Sansom street, Philadelphia. Owner, William Hodgson, Haddonfield, N. J. Stone work, frame work, enclosed porches, etc. Plans in progress. Architect will be ready for bids in a week.

Factory, Trenton, N. J. Engineers, Karno-Smith Co., Broad Street Bank Building, Trenton, N. J. Owners, Lenox, Inc., Meade and Primo streets, Trenton, N. J. Reinforced concrete, 1, 2 and 3 stories, 100x394 feet, 20x400 feet and 40x75 feet, slag roof, concrete floors, vacuum heating, electric lighting, hollow tile, fire doors, safety treads, roof ventilators, metal window guards, metal fixtures. Engineers taking sub-bids.

Club House, Trenton, N. J. Architect, Wm. Slack, St. Regis Theatre Building, Trenton, N. J. Owners, Carteret Club, care of architect. Mill construction, 3 stories, 60x120 feet, slag roof, wood floors, vapor heat, electric light, tile work. Architect taking bids, due as soon as possible. Fred R. Parker, 327 Calhoun street; Barlow & Bergess, Charles Smith, S. W. Mather & Son, Burton & Burton, Edw. La Rue, Charles Randal and I. W. Clayton, all of Trenton, N. J., are figuring.

Theatre Building and Apartment House, Moorestown, N. J. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owners, Criterion Theatre, Moorestown, N. J. Architect taking bids, due April 12th. Stewart L. Maines, Moorestown, N. J.; Geo. W. Shaner, Palmyra, N. J.; Ketcham & McQuade, 1029 Brown street, and J. S. Rogers Co., Drexel Building, Philadelphia, are figuring.

Delaware Construction News

Commercial Building, 826 Market street, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Wilmington Savings Fund Society, care of Fred Stone, premises. Steel, fireproof, 5 stories,

Portland Cement, Sand or Gravel by carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

27x210 feet, stone foundations, slag roof, hardwood floors, electric light, tile, marble and terrazzo work, rolled steel sash, elevators, roof ventilators. Competitive plans submitted.

Residence (alts.) to Apartment (add.), 1606 Washington street, Wilmington, Del. Architect, E. L. Rice, 815 Market street, Wilmington, Del. Owner, H. L. Bartram, on premises. Brick, 3 stories, 70x18 feet, stone foundations, tin and slate roofs, pine floors, hot water heat, electric light, interior alterations. Plans in progress.

Garage and Storage Building, Twelfth and Front streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, J. Litchenbaum, Front street, Wilmington, Del. Brick, slow burning, 3 stories, 34x75 feet, slag roof, cement floors, steam heat, electric light, hollow metal sash. Plans in progress.

Y. M. C. A. Building, Ninth and King streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Y. M. C. A., care of architect. Brick, 5 stories, 87x140 feet, slag and patent roof, hardwood floors, electric light, tile, marble and terrazzo work, rolled steel sash, fire doors, fire escapes, hollow tile, elevators, roof ventilators (plumbing and heating reserved). Architect ready for bids April 10th.

Machine Shop, Lombard street, Wilmington, Del., $14,000. Architect, private plans. Owner, Layman Machine Co., Eleventh and Lombard streets, Wilmington, Del. Concrete, 1 story, 64x148 feet, stone foundations, steel roof, concrete floors, electric light, roof ventilators. Owner will build.

Delaware Contracts Awarded

Theatre and Stores, 806-08-10 Market street, Wilmington, $250,000. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owner, Wilmington Theatre Co., Wilmington, Del. Brick, concrete, steel, 2 and 3 stories, 56x210 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, rolled steel sash, roof ventilators. Contract awarded to M. Shapiro & Son, 52 Vanderbilt street, New York.

Wagon Shed, Lombard street, Wilmington, Del., $5,000. Owner, Clover Dairy Co., Twelfth and Orange streets, Wilmington, Del. Concrete and brick, 1 story, 25x160 feet, slag roof, cement floors, electric light. Contract awarded to Realty Const. Co., Dupont Building, Wilmington, Del.

Service Building, Twelfth and French streets, Wilmington, Del. Architects, Greisler-Abramson Co., Lafayette Building, Philadelphia. Owners, Automobile Supply Co., 905 Shipley street, Wilmington, Del. Brick and steel, 3 stories, 40x70 feet, slag roof, pine and woodoleum floors, steam heating, electric lighting, rolled steel sash, hollow metal sash, flush bulks. Contract awarded to Joseph S. Hamilton, 829 Orange street, Wilmington, Del.

Miscellaneous Construction News

Residences (85), Sparrows Point, Md. Architect, Edward L. Palmer, 513 North Charles street, Baltimore, Md. Owner, Bethlehem Steel Co., Sparrows Point, Md. Hollow tile and stucco, 2½ stories, 21x28 feet, slate roof, pine and oak floors, stone foundations, pipeless heaters, electric lighting, tile work, metal lath. Owners have received bids.

Church, Sunday School and Parsonage, Baltimore, Md. Architect, Ritcher-Lee, Sixth and Court streets, Reading, Pa. Owner, Grace Lutheran Church, care of Rev. C. G. Wolf, Harford road, Baltimore, Md. Stone, 1 story and basement, and 2½ stories, 108x50 feet and 30x54 feet, slate roof, hardwood floors, concrete foundations, vapor heat, electric light, tile work. Plans in progress.

Office Building, Sparrows Point, Md. Architect, private plans. Owner, Bethlehem Shipbuilding Corp., Bethlehem, Pa. Steel, brick and terra cotta, 2 stories, 200x48 feet, wing 88x40 feet, slag roof, cement and marble floors, metal lath, roof ventilators, waterproofing, iron stairs, steam heat, stone foundations. Owners taking bids due April 8th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

College Buildings, Washington, D. C. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, Augustinian Fathers, care of Rev. F. J. McShane, 1041 Laurence street, Brookland, Washington, D. C. Brick, stone and marble, 4 stories, 75x200 feet, steam heat, electric light, tile and marble work, hollow tile, metal lath. Plans in progress.

Proposals

SEALED PROPOSALS.

DOVER, N. J., March 27, 1920.—Sealed proposals for construction of Explosive "D" Building at this Arsenal will be received until 1 o'clock P. M., April 12, 1920. For forms, plans and specifications, apply to Commanding Officer.

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for April 1, 1919.

Editor, H. L. Sharpe.

Managing Editor, none.

Business Manager, Louis S. DeLone.

Publishers, Building News Publishing Co., Perry Building, Philadelphia.

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Known bondholders, mortgages and other security holders holding one per cent. or more of total amount of bonds, mortgages or other securities, none.

(Signed)

Building News Publishing Co.,
Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 17th day of March 1920.

Edward J. Toole, Notary Public.

(My commisson expires Jan. 21, 1921.)

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(Continued from Page 352.)

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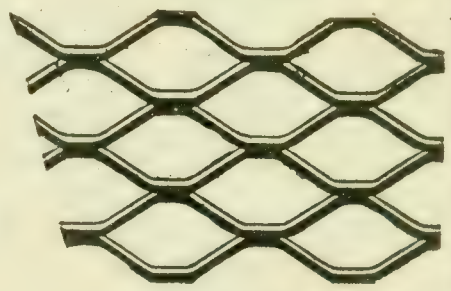
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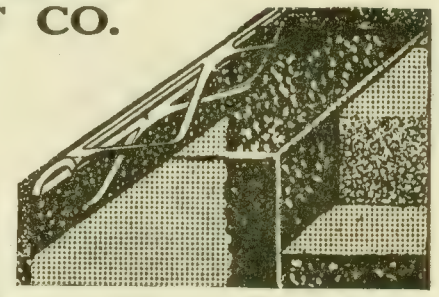
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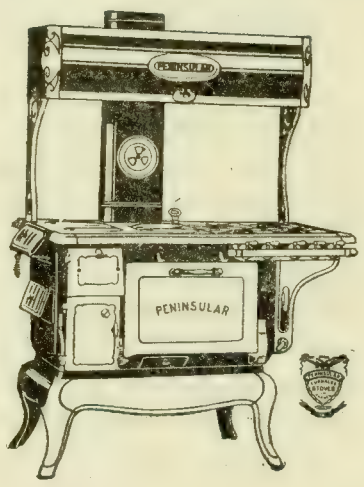
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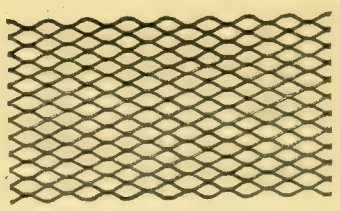
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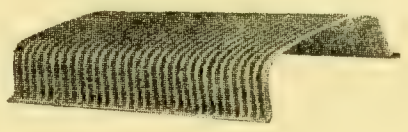
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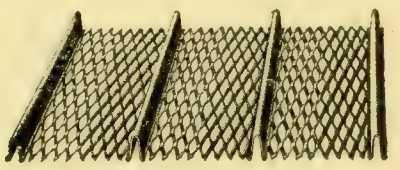
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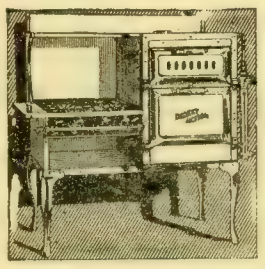
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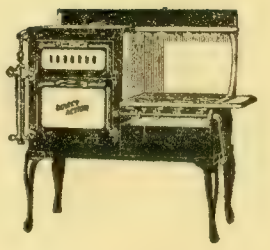
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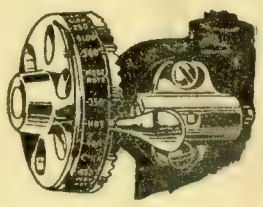
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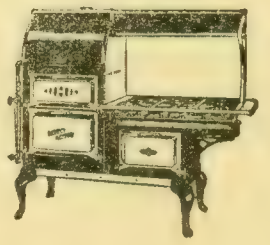




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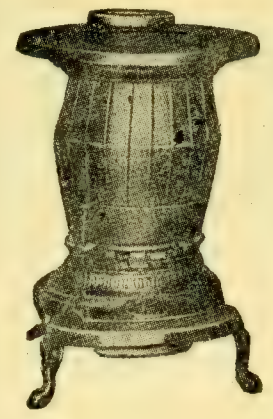
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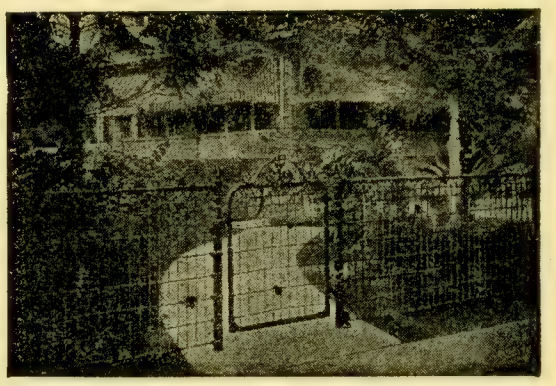
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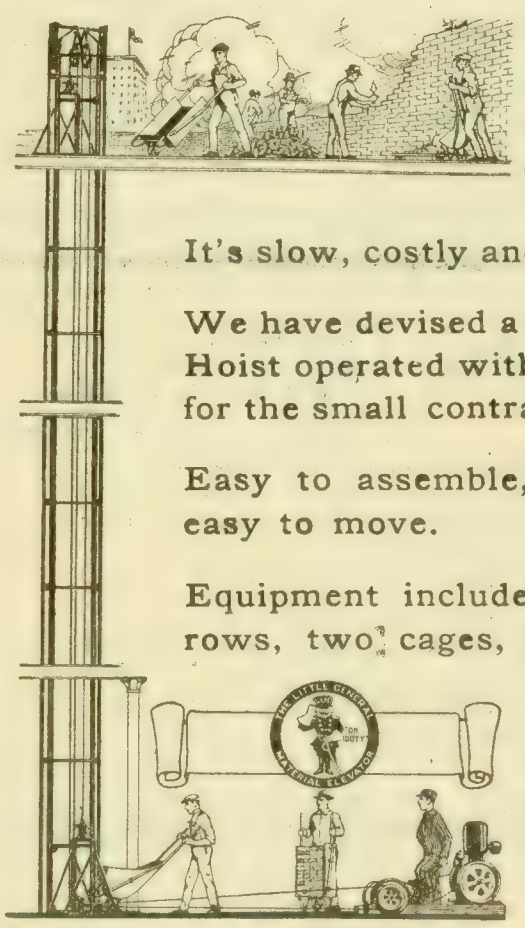


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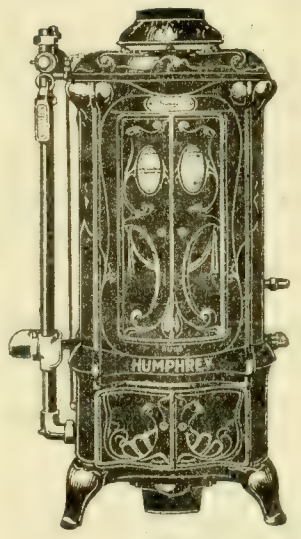
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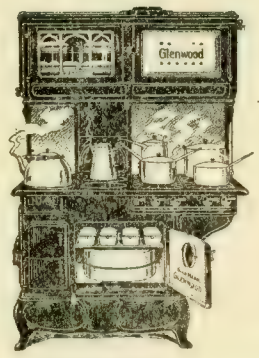
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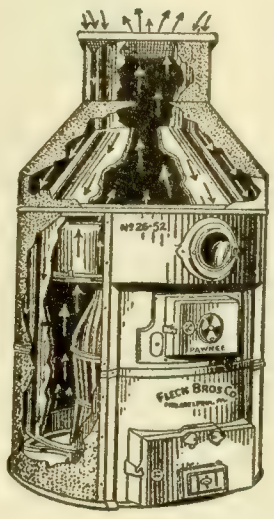


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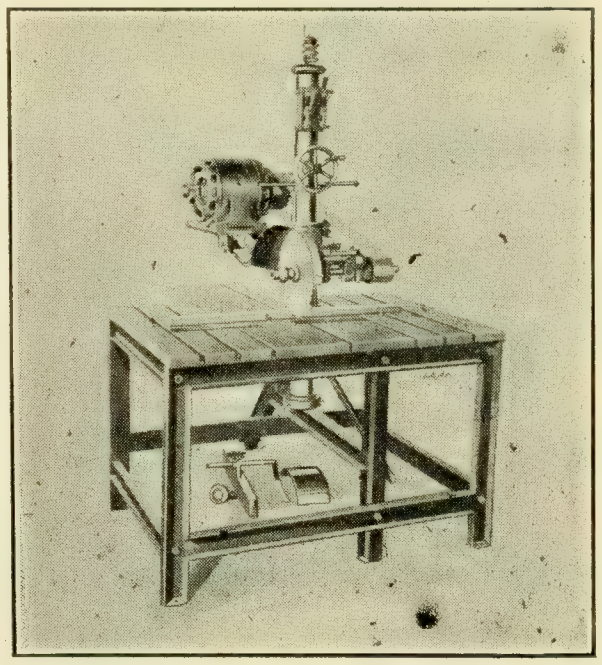
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 15

PHILADELPHIA
April 14, 1920

BUILDERS' GUIDE

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As The Editor Sees It

FOR the past year we have all been appalled at the chaotic conditions in the industrial world—strikes seem to be the order of the day; inefficiency and high wages have been running a race with each other, and, in bewilderment, we ask ourselves, "how will it all end?"

When we see that, in Chicago, men are actually striking against their own unions, we feel that the peak of the situation has been reached.

However, the inevitable sliver lining is beginning to show itself—just at the moment when the cloud seems blackest.

For several months we have been hearing and preaching the doctrine of co-operation. Many wise heads have realized that co-operation on the part of employer and employe, of unions and business executives, is essential to the restoring of sane, normal business conditions. Now, if ever, the world needs the honest, conscientious labor of everyone, whether he be employer or employee; furthermore, all workers—and, who in the world is not a worker?—must realize their interdependence—capital is depenident on labor and vice versa; the individual is dependent on the whole of which he is a part and the whole is dependent on each of its individual components. As we said, when things seem blackest and unrest at its highest, comes the encouraging news from Labor of Philadelphia that it is 100% behind the project to relieve housing congestion. William J. Haggerty, representing the Philadelphia Council of Associated Building Trades, said, "All things being equal Philadelphia labor will mobilize at once and get behind the plan and turn out the best possible job from the standpoint of quantity and quality."

England is experiencing a labor awakening among the building trades, expressed by the Manchester Building Guild scheme. According to the "Journal of the American Institute of Architects," "Not for profits do these workers contend. They propose to develop a method of building which shall be based upon the principle of quality, and thus to rescue architecture from its present drift toward standardization and sterilization. They propose to organize the building industry so that workmen will be guaranteed a full week's work and pay, each workman becoming, in effect, a salaried member of the Guild. More than that, they have enlisted the active co-operation of architects and of intelligent contractors, whose skilled service must form a part of guild development."

Commenting on the Guild, the *London Daily News* says:

"Whatever comes of it, the Manchester Building Scheme is a most extraordinarily interesting experiment. The essence of the scheme, as explained by Mr. Hobson, is that homes are to be built at net cost (that is to say, cost of labor and materials) plus 10 per cent. This 10 per cent. would not be profit, but would be utilized to meet overhead charges—such as management expenses, etc.—to purchase plant (which would be vested in trustees) and to meet the obligations which the Guild would undertake towards labor. The Guild is already sufficiently confident to declare that so soon as its organization can be extended from a Manchester to a Northwestern Guild it will be prepared to undertake the building of 100,000 houses. That is a fair enough retort in itself to the Prime Minister's accusation against Labor of delaying the necessary house building. But the most remarkable and the most hopeful feature of this scheme is the spirit behind it. The revolt of the workman against bad workmanship and jerry building is by no means confined to Manchester; but it is enshrined in this Manchester scheme. If it prove effective in operation, a thing will have been done greater than the building of any number of houses, desperate as the house-famine is. We shall be fairly in sight of a revival of the spirit of craftsmanship which was the pride and glory of the Middle Ages. It will not be confined to any one trade; it will be an industrial revolution as tremendous in its results as that which changed the face of England last century, and free its very nature from

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the abominations which disgraced its predecessor.

* * *

ACTIVITIES OF BUILDERS EXCHANGES IN PHILADELPHIA

Members of the Builders Exchange are to be congratulated on the selection of speakers that have made addresses at the weekly luncheons since their revival. Last Wednesday those present were delighted by the expression and assurance of greater co-operation between architects, builders and the building fraternity when David Knickerbocker Boyd, Philadelphia's progressive architect, voiced the sentiments of the Architectural Profession. Mr. Boyd made clear the many advantages of working more closely together and convinced his audience that the work of good architects would be more appreciated and the poor work of inferior architects would be soon disregarded if builders would get together and refuse to figure on carelessly planned drawings and loosely prepared specifications. Inexperienced, fly-by-night builders only, according to Mr. Boyd, are satisfied to take chances estimating on any kind of plans, not realizing the importance of following definite, positive drawings and specifications.

Mr. Boyd emphasized the fact that too often commissions appointed by cities, states, and the Federal Government have not included architects and builders, principally because these two classes of men have generally evaded activities of such character and have requently shown a disposition of indifference. We agree with Mr. Boyd that a spirit of reluctance has prevailed in the past, but the interest and enthusiasm manifested recently by President E. E. Hollenback of the Builders Exchange in city and public spirited movements is evidence that builders will, hereafter, influence to a great extent formation of policies and settlement of city problems, particularly the most urgent one at present, namely securing of shelter for inhabitants of cities.

In speaking of housing Mr. Boyd dwelt at length on the necessity of using materials extracted and manufactured from earth rather than lumber, which at the rate it is now being used will in ten years exhaust the supply of some k nds, particularly spruce.

Mr. Thomas Armstroing, Chairman at the luncheon, complimented very highly the sentiments of Mr. Boyd and expressed the feeling that greater harmony and more real pleasure in life would result if more architects and builders would follow the suggestions made.

Wednesday, April 15th, Mr. Thomas S. Holden, Chief Statistician of the F. W. Dodge Co., will talk at the luncheon and endeavor to show why the cost of buildings is going so high.

Tuesday evening, April 20th, at the Exchange Building, there will be a combination corporation meeting, vaudeville and smoker for the members of the Exchange. The Entertainment Committee promises an interesting and most enjoyable entertainment. Every member is urged to come out that evening and help to make the meeting a big success.

May 13th, the famous Annual Shad Dinner of the Exchange will be held at Mineral Springs Hotel. This will be a great occasion. Note this on your calendar, so that you will be there.

WHO BULLED THE MATERIAL MARKET?

By A. E. WELLS, *President,*
Wells Brothers Construction Co.

Have we an actual shortage of building materials or a theoretical shortage? Should prices reflect a theoretical scarcity? These are pertinent questions.

We are in the midst of an orgy of building. When the Armistice was signed, a few longheaded owners went ahead immediately. Some merely went into print telling the country of their firm conviction that prices were due to advance and not to recede and that construction on the cost basis of late 1918 and early 1919 was low compared to what we might expect for many years thereafter. Others wisely backed that belief by construction.

But the bulk of thought on the part of those whose money was to be expended was, "Let's wait and see." Months passed. Then came the deluge, a hundred million dollars of building permits in a single week and an astounding total for the year 1919, covering not only building construction, but pavements, sewers, dams and every character of public and private construction. The end is not yet in sight, but certain results are becoming distressingly evident.

As work opened up everyone began bidding for structural steel, reinforcing steel, steel sash, cement, tile and brick. As production was short, visible supplies vanished. Inevitably prices went up except for a few notable exceptions.

The sane men of finance and business were opposed to having prices rise still higher and advocated at least the holding of the price level prevailing at the end of war. This promised a continuance of wage scales at existing levels until such time as the cost of living might be reduced.

Yet the action of owners and of con-

(Continued on Page 384.)

NO LIEN CONTRACTS

Date.	Contractor.	Owner.	Building.	Location.
April 3	—Brencke Bros.	Levick & Waldow.	Bricklaying.	Erie Ave., N. W. of Amber St.
" 5	—J. Maurer & Co.	L. H. Elfman.	Alt. and add.	S. W. Cor. 13th .and Montgomery Ave.
" 6	—F. Elvidge & Son.	Elinor C. Janney.	House.	6434 Jefferson St., Gtn.
" 7	—All Contr. and Mat. Men.	J. Harry Oliver.	31 houses.	Hagerman, bet. Hellerman and Magee Sts.
" 7	—All Contr. and Mat. Men.	Isenberg & Liebman.	22 houses.	East side Warnock, below Cortland.
" 7	—All Contr. and Mat. Men.	Dental Co. of Amer.	Alt. and add.	N. W. Cor. McKean and Bancroft.
" 8	—All Contr. and Dealers.	L. Swerdloff.	12 stores and dwelling.	71st and Elmwood Ave.
" 8	—All Contr. and Dealers.	John D. Fisher.	Garage.	Ludlow below 43rd St.
" 8	—Stephen Harvey.	E. T. Hallock.	Additions.	3722 Irving St.
" 8	—Irwin & Leighton.	Bell Telephone Co.	Alt. and add.	N. W. Cor. Broad and Rockland Sts.
" 9	—Tourison & Tourison.	R. Venturi & Bros.	Alt. and add.	1430-32 South St.
" 9	—Frank & Kaiser.	M. Robinson.	Alt. and add.	2943-5 Kensington Ave.
" 9	—E. Roman.	Wm. I. Greenfield.	Tile work, 3 houses.	Belmont above Conshohocken Ave.
" 9	—Julius Shead.	Wm. I. Greenfield.	Roofing, spouting, etc.	Belmont above Conshohocken Ave.
" 9	—P. and R. Electric Co.	Wm. I. Greenfield.	Electrical work.	Belmont above Conshohocken Ave.
" 9	—J. Libros.	Wm. I. Greenfield.	Painting.	Belmont above Conshohocken Ave.
" 9	—T. S. Fetter.	H. J. Fasy.	Office and apt., bldg.	S. W. Cor. 18th and Thompson Sts.
" 9	—Lam Building Co.	Kellers, Inc.	Building.	N. E. Cor. 16th and Sansom Sts.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, Fifteenth and Allegheny avenue, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, Finance Building, Philadelphia. Stone, brick and concrete. Plans about completed. Architects will be ready for bids in about ten days.

Bridge, over P. and R. R. R., Norristown Division, Broad and Lehigh avenue, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Bureau of Highway, City Hall, Philadelphia. Concrete and steel. Owners taking bids due April 20th. Snare & Triest, Pennsylvania Building; Mundy Cont. Co., 228 South Alder street; General Cont. & Eng. Co., 727 East Chelten avenue; M. & J. B. McHugh, 892 North Markoe street; E. C. Fish, Real Estate Trust Building; Robbins Cont. Co., 1137 North Front street, and Monghan & Losse, Inc., 3016 Chestnut street, are figuring.

Store Building (alts. and add.), Sixth and South streets, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, M. Silverman & Son, on premises. Brick, terra cotta and steel, 3 stories, 92x20 feet, and fourth story add. 92x80 feet, slag roof, pine floors, metal lath, elevators, stone foundations, tile and marble work, hollow metal doors, fire escapes, ornamental iron work. Architects taking bids due April 15th. Ketcham & McQuade, 1029 Brown street; Frank E. Wallace, 1220 Chancellor street; H. E. Baton, 1713 Sansom street; William R. Dougherty, 1610 Sansom street; Hughes-Foulkrod Co., Commonwealth Building, and Graham & Wells, 3649 Filbert street, are figuring.

Hospital (Unit A), Eighteenth and Fitzwater streets, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, Children's Hospital, on premises. Brick, cut stone, concrete and steel, 4 stories, 62x57 feet, tile and slag roof, cement, oak and terrazzo floors, rolled steel sash, tile and marble work, iron work, metal lath, hollow tile, safety treads, waterproofing, dampproofing. Architects have received bids.

Store, Garage and Sun Parlor, 260 East Northeast Boulevard, Philadelphia. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, M. Zinman, on premises. Brick, 2 stories, 19x18 feet, slag roof, cement and pine floors, stone foundations. Architects taking bids. J. H. Feeser, Liberty Building, figuring.

Store and Residence (alts. and add.), 5925 Girard avenue, Philadelphia. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, Burk's Meat Market, care of architects. Brick and steel, 1 story, 15x22 feet, slag roof, pine floors, stone foundations, electric light, plastering, painting, plate glass, iron work. Architects have received bids.

Manufacturing Plant, Third and Luzerne streets, Philadelphia. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Commercial Truck Co. of America, care of E .R. Whitney, president, Twenty-seventh and Brown streets, Philadelphia. Brick and concrete. Plant will cover several acres. Plans in progress. Details undecided.

Sanitarium (alts.) to Apartment House, 1929-31 Wallace street. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, F. Hano, care of architect. General interior alterations. Architect taking bids due April 16th. Smith-Hardican Co., 1606 Cherry street; Albert Zellfelder, 151 South Broad street, and Jones Davies, 3915 Walnut street, are figuring.

Building (alts.) for Chinese Restaurant, 1023-25 Market street. Architects, Arthur Weindorf and T. P. Pullis, Brooklyn, N. Y. Owners, Sun Deluxe Restaurant, care of architects. Carpentry, mill work, composition floors, electric work, plumbing, plastering, metal lath, painting. Architects taking bids due April 16th. Ketcham & McQuade, 1029 Brown street, are figuring.

Office Building (alts.), 112 North Broad street, Philadelphia. Architect, Wesley Lesher Blithe, 608 Chestnut street, Philadelphia. Owners, Fidelity Mutual Life Ins. Co., on premises. Steel work, reinforced concrete, dampproofing, alterations to ninth and tenth floors. Plans in progress.

Residences (18), Berkley street and Pulaski avenue, $108,000. Architect, private plans. Owners, Robert Killough, Wayne avenue and Duval street, Philadelphia. Brick, 2 stories, 184x30 feet, slag roof, electric lighting. Owner will build.

Residences (31), Hellerman, Hagerman and Magee streets, Philadelphia, $123,150. Architect, private plans. Owner, J. Harry Oliver, 1132 Land Title Building, Philadelphia. Brick, 2 stories, 17½x30 feet, slag roof, hardwood and pine floors, stone foundations, steam heat, electric lighting, tile work. Owner will build.

Dwellings, Forty-eighth and Walnut streets, Philadelphia, $181,000. Architect, private plans. Owner, S. Sonnenfeld, 707 Walnut street, Philadelphia. Brick, (1) 3 stories, 18x60 feet, (11) 2 stories, 16½x39 feet and 18x21 feet, slag roof, hot water heat, electric lighting, hardwood floors, tile work. Owner will build.

Residences and Garages (10), Ninth street and Sixty-sixth avenue, Philadelphia, $100,000. Architect, private plans. Owners, A. McBain, 6547 North Thirteenth street, Philadelphia. Brick, 2 stories, 16½x46 feet, hot water heat, electric lighting, slag roof, hardwood and pine floors, stone foundations, cement work. Owner will build.

Dwellings (31), Lindley avenue, Eighth and Ruscomb streets, $172,500. Architect, private plans. Owners, W. E. Rees, Southwest Corner Eighth and Lindley avenue, Philadelphia. Brick, 2 stories, 16x46 feet and 16x32½ feet, 13x12½ feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (6), Tenth and Lycoming streets, Philadelphia, $37,000. Architect, private plans. Owner, Francis B. J. Branigan, 537 West Erie avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hot water heating, electric lighting, hardwood and pine floors. Owner will build.

Garage, 1310-12 Unity street, Philadelphia, $6,000. Architect, private plans. Owner, Joseph Deni, 1308 Unity street, Philadelphia. Brick, 1 story, 41x80 feet, 24x32 feet, slag roof, cement floor, electric lighting. Owner will build.

Barber Shop (alt. and add.), 1315-17 South Second street, Philadelphia, $5,500. Architect, private plans. Owner, J. Merkel, 1315 South Second street, Philadelphia. Brick, 1 story, 39x40 feet, general alterations. Owner will build.

Dwellings (24), Twenty-fifth street, Fisher's Lane and Duncannon street, $169,000. Architect, private plans. Owner, W. O. Mahan, 6718 North Broad street, Philadelphia. Brick, 2 stories, 20x32 feet and 20x31 feet, 20x7½ feet, slag roof, hot water heating, electric lighting, hardwood and pine floors. Owner will build.

Stores and Dwellings (2), 249-51 South Fifth street, Philadelphia, $22,000. Architect, private plans. Owner, Jacob Rottman, 4252 Parkside avenue, Philadelphia. Brick, 3 stories, 17½x28 feet, 14½x37 feet, slag roof, hot water heat, electric lighting, hardwood floors. Owner will build.

Dwelling, Northwest Corner Fairhill and Chelten avenue, Philadelphia, $7,000. Architect, private plans. Owner, Alic Turner, 6240 North Thirteenth street, Philadelphia. Hollow tile, 2 stories, 25x40 feet, slag and slate roof, electric light, tile work. Owner will build.

Residence, Germatnown, Philadelphia. Architect, Frank V. Nickels, 4400 Manayunk avenue, Philadelphia. Owner, John A. Seeds, Germantown, Philadelphia. Stone, 2½ stories, 32x64 feet, shingle roof, oak and pine floors, stone foundations, hot water heat, electric lighting, tile and marble work, iron work. Architect taking bids due April 18th. A. L. Fretz & Son, Heed Building; Hughes-Foulkrod Co., Commonwealth Building; Hogg Cons. Co., Denckla Building, are figuring.

Stores and Apartments (alts. and add.), 6011-13 Market street, Philadelphia. Architect, J. C. Fernald, 5531 Wyalusing avenue, Philadelphia. Owner, T. R. Howard, Millbourne, Pa. General alterations. Owner has received bids.

Garages (16), rear 6132-62 Lebanon avenue, Philadelphia, $6,400. Architect, private plans. Owners, Ramsey & Williams, 5932 Catharine street, Philadelphia. Owners will build.

Department Store, Passyunk avenue and Morris street, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owners, Raboff Department Store, on



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premises. General interior alterations, hot water heating, flush bulks. Owners are taking bids. Nicholas Scurci, 1709 South Eleventh street, is figuring.

Church (alts.), Fitzwater street and Gray's Ferry Road, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, St. Anthony de Padua Roman Catholic Church, on premises. Interior decorating of upper church, marble work, plastering and carpentry in basement and alterations to vestibule. Architect is taking sub-bids.

Manufacturing Building, Allegheny avenue and Hancock street, Philadelphia. Architects. William Steele & Sons Co., 1600 Parkway. Philadelphia. Owners, Moss-Rose Mfg. Co.. Solomon Selig, on premises. Brick and reinforced concrete, slag roof, concrete foundations, steam heat, electric lighting, cement floors. Plans in progress. Too early for details.

Store and Residence, 738 South Fourth street, Philadelphia. Architect, H. H. Kline. 1612 South Fourth street, Philadelphia. Owner, I. Matuck, on premises. Brick, 3 stories. 18x62 feet, slag roof, pine floors, hot water heat, electric lighting, tile and marble work. metal ceilings. Ready for bids in two weeks.

Store and Building (alts. and add.), Southwest Corner Twenty-first and Columbia avenue. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. General interior alterations, reinforced concrete work, 3 stories, 40x65 feet. maple floors, steam heat, electric light, marble work, metal ceilings, iron work. Ready for bids in two weeks.

Building (alts.) to Store and Apartments. 107 South Eleventh street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Richman Realty Co., 1205 Liberty Building, Philadelphia. General interior alterations, 3 stories, 21x75 feet, changing partitions, slag roof, hardwood floors, hot water heat, electric light, marble work, plate glass, metal ceilings, flush bulks. iron work. Architect will be ready for bids in one week.

Residence and Store (alts.), Northeast Corner Seventeenth and South streets, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Louis Goldberg, care of architect. Changing partitions, 3 stories, 16x56 feet, slag roof, hardwood floors, hot water heat, electric light, marble work, plate glass, metal ceilings, flush bulks, iron work. Architect will be ready for bids in one week.

Garage, 419-21 Fitzwater street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Samuel Kornofsky, 419 Fitzwater street, Philadelphia. Brick, 1 story, 42x136 feet, slag roof. stone foundations, steam heat, electric lighting, hollow metal skylights. Owner and architect taking bids. Henry P. Schneider, 3713 Old York Road, is figuring.

Offices and Residences (alts.), Northwest Corner Seventeenth and Erie avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, r. Leslie M. Craver, on premises. Brick, 3 stories, store in basement, concrete and pine floors, plumbing, electric work, copper bay window, plate glass. Owner taking bids. Henry P. Schneider, 3713 Old York Road, is figuring.

Residence and Garage, Twelfth street, Oak Lane, Philadelphia. Architect, Carl P. Berger, South Penn Square Building, Philadelphia Owner, Mrs. Annie E. Ledig, care of architect Stone, 2½ stories, 47x33 feet, garage, 1 story. 24x19 feet, slate and slag roof, pine, oak and cement floors, stone foundations, hot water heating, electric lighting, tile work. Architect taking bids due April 19th. Hogg Const. Co.. Denckla Building, and A. L. Fretz, Heed Building, Philadelphia; William J. Gruhler Co., 219 East High street, are figuring.

Store and Apartments, Northwest Corner Fifth and South streets, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, Harry Krengle. Northeast Corner Fifth and South streets. Philadelphia. Brick, 2 stories, 40x46 feet. slag roof, marble and plate glass front, composition floors, steam heat, electric light, cabinet work. Owner has received bids.

Residence, 2212 Duncan street, Philadelphia, $4,500. Architect, private plans. Owner, Joseph A. Majka, 4669 Stiles street, Philadelphia. Brick, 2 stories, 16x58 feet, 16x8 feet, slag roof, hot water heating, electric lighting, pine floors. Owner will build.

Transformer Station, northeast corner of Marshall and Noble streets, $7,500. Architect, private plans. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, 1 story, irregular size. Owners will build.

Building (alts. and add.), Sixty-first and Larchwood avenue, Philadelphia. Architects, Wm. F. Koelle Co., Twenty-sixth and Oxford streets, Philadelphia. Owners, A. & F. Dry Cleaning Co., on premises. Brick, 2 stories, 112x76 feet, slag roof, cement and pine floors, stone foundations, rolled steel doors (heating, lighting and plumbing reserved). Owners taking bids from Thos. C. Trafford, 1613 Sansom street, Philadelphia, due April 17th.

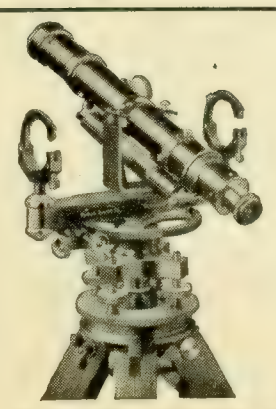
Residence (alts.) to Apartment House, Stenton, Philadelphia. Architect, Allen Cornell, Bulletin Building, Philadelphia. Owners, Mauran, Dolman, Liberty Building, Philadelphia. Carpentry, millwork, plastering, plumbing, hot water heating, electric work, iron work. Owners will build.

Residences (4), Woodbine avenue and Fifty-first street, Philadelphia, $32,000. Architect, private plans. Owner, T. F. Reilly, Bryn Mawr and Overbrook avenues, Philadelphia. Stone, 3 stories, 27½x48 feet, slate roof, hot water heating, tile work, electric lighting, hardwood floors. Owner will build.

Office Building (alts.), Fifty-seventh and Chestnut streets, Philadelphia, $25,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. General interior alterations, carpentry, tile and mosaic work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Store and Dwelling, southeast corner of Ninth and Montrose streets, Philadelphia. Architect, Frank V. Nickels, 4400 Manayunk avenue, Manayunk. Owners, Guinta Bros., 1030 South Ninth street, Philadelphia. Brick, 3 stories, 20x60 feet, slag roof, pine floors, stone foundations, electric lighting, tile work, plumbing, hot water heating, flush bulks. Owners are taking bids.

Warehouse (alts. and add.), 429 North Sixth street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owners, Stott Hecht Glass Works, on premises. Brick, second story addition, 40x130 feet, slag roof, pine floors, structural steel,



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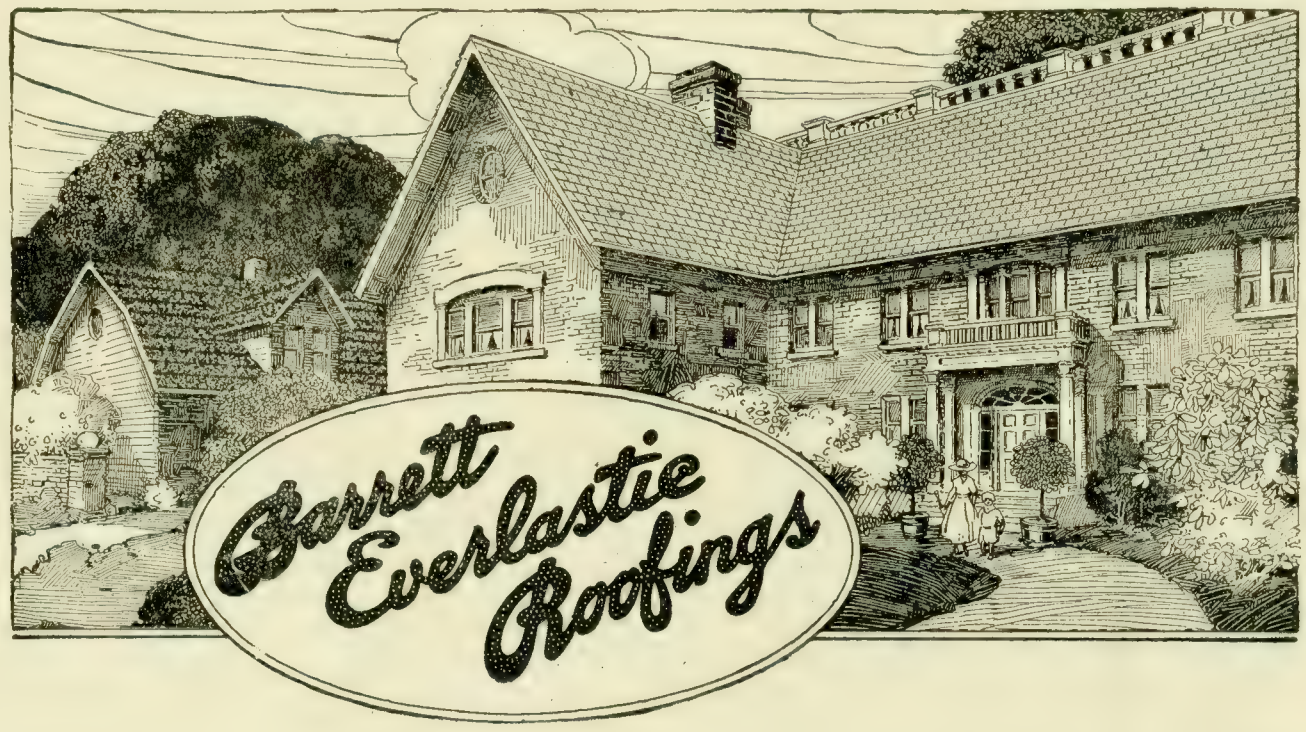
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rolled steel sash and hollow metal skylights (heat, lighting and plumbing reserved). Architects taking bids, due April 22nd. H. E. Baton, 1713 Sansom street; Robbins Cont. Co., 1137 North Front street; Smith-Hardican Co., 1606 Cherry street; F. I. Wintz, 1618 North Twenty-seventh street, and Ketcham & McQuade, 1029 Brown street, are figuring.

Forge Shop (alts. and add.), Front and Erie avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Hess Bright Manufacturing Co., on premises. Stucco, steel and brick, 1 story, 330x20 feet, wings 152x54 feet, 200x32 feet and 120x32 feet, slate and composition roof, cement and pine floors, stone foundations, heating extension, metal lath, hollow metal sash, iron work. Architects taking bids and sub-bids, due April 19th. H. J. Homan, 34 South Seventeenth street, and A. R. Raff Cont. Co., 1635 Thompson street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Corner Rorer and Schiller streets, Philadelphia, $62,000. Architect, private plans. Owners, Ontario Dyeing Co., Ontario and D streets, Philadelphia. Brick, 2 stories, 95x104 feet, slag roof, pine and cement floors, steam heating, electric lighting. Contract awarded to A. Crompton & Bro., 4614 Oakland street, Philadelphia.

Store and Dwelling (alts.), 3160 Kensington avenue, Philadelphia, $9,200. Architect, private plans. Owner, Northeastern State Bank, 3160 Kensington avenue, Philadelphia. General interior and exterior alterations. Contract awarded to John T. Carberry, 1974 Medary avenue, Philadelphia.

Shop, Westminster avenue, East of Fifty-eighth street, Philadelphia, $3,500. Architect, private plans. Owner, Westminster Machine Co., '5623 Vine street, Philadelphia. Brick, 1 story, 50x52 feet, slag roof, cement floor, electric light. Contract awarded to James E. Jones, 5814 Haverford avenue, Philadelphia.

Garages (2), 6019 Lansdowne avenue, Philadelphia, $3,000. Architect, private plans. Owner, R. E. Phelps, on premises. Brick, 1 story, 9x16 feet, slag roof, cement floor. Contract awarded to T. Esbionson, 1700 North Sixtieth street, Philadelphia.

Factory (add.), 5119 Stiles street, Philadelphia. Architect, private plans. Owners, Dentist Supply Co., on premises. Brick and steel, 1 and 2 stories, 50x60 feet, wing 23x26 feet, slag roof, cement floors, roof ventilators, stone foundations, steam heat, hollow metal skylights, fire doors, iron work. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Store (alts.), 4009 Market street, Philadelphia. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, William Meenehan, 250 South Broad street, Philadel-

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phia. General alterations, plastering, painting. Contract awarded to Warren E. Briscoe, 3954 Ludlow street, Philadelphia.

Garage, 1633-35-37 Fitzwater street, Philadelphia, $5,000. Architect, private plans. Owner, J. Stockett, on premises. Brick, 1 story, 40x60 feet, slag roof, electric lighting, cement floors. Contract awarded to Boris Tustin, 617 Reed street, Philadelphia.

Factory (add.), 622 Cherry street, Philadelphia, $4,500. Architect, private plans. Owners, T. S. Johnson Sons & Co., premises. Brick, 2 stories, 18x45 feet, slag roof, steam heating, electric light, pine floors, hollow metal skylights. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street, Philadelphia.

Dwelling (fire repairs), Southeast Corner McCallum and Mt. Airy avenue, $10,000. Architect, private plans. Owner, M. De May, 1940 North Thirteenth street, Philadelphia. General restoration. Contract awarded to John Kelly, 5624 Westminster avenue, Philadelphia.

Factory (fire repairs-, 1026 Race street, Philadelphia, $8,000. Architect, private plans. Owner, Yarnall Paint Co., on premises. New slag roof. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Three Family Dwellings (alts. and add.), Northwest Corner Carpenter and Cresheim streets, Philadelphia, $4,500. Architect, private plans. Owner, Sydney L. Wright, 132 Carpenter street, Philadelphia. Brick, 3 stories, 13x9½ feet, slag roof. Contract awarded to Stokes Bros., 6723 Musgrave street, Philadelphia.

Factory (alts.), 1821-23 North Sixth street, Philadelphia, $7,500. Architect, private plans. Owner, Hentz, Merkle & Co., on premises. General alterations. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Garage (alts.), 509-11-13 Fitzwater street, Philadelphia, $6,700. Architect, private plans. Owner, Peter Cianfiani, on premises. General alterations. Contract awarded to A. Bressi, 1141 Linn street, Philadelphia.

Laundry Building, 319 North Thirty-second street, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Pennsylvania Laundry Co., on premises. Two new monitors, repairing old monitors, outside painting, glazing. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Residence (alts.), 905 Clinton street, Philadelphia. Architects, Stewardson & Page, 320 Walnut street, Philadelphia. Owner, Thornton Oakley, on premises. Changing studio into fourth floor, carpentry, mill work, painting. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Residence (alts.), Southwest Corner Fortieth and Cambridge streets, $5,500. Architect, private plans. Owner, Jacob Schwartz, 4247 Leidy avenue, Philadelphia. Brick, 1 story, 17x14 feet, changing into two-family house. Contract awarded to H. Dinkeman, 2426 South Second street, Philadelphia.

Market House (alts. and add.), 1430 South street, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Robert Venturi & Bro., 1430 South street, Philadelphia. Brick and frame, 1 story, 34x120 feet, stone foundations, asphalt mastic roof and floors, pipeless heating, electric lighting (plumbing, electric work and refrigeration reserved). Contract awarded to Tourison & Tourison, 1011 Chestnut street, Philadelphia.

Factory (fire repairs), Southwest Corner Mascher and Turner streets, $20,000. Architect, private plans. Owner, Belber Trunk Mfg. Co., 1641 North Hancock street, Philadelphia. General alterations. Contract award-

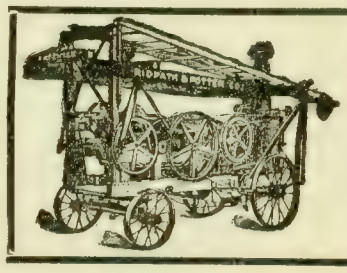


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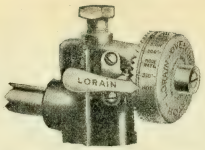


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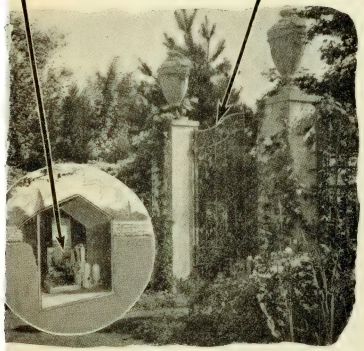
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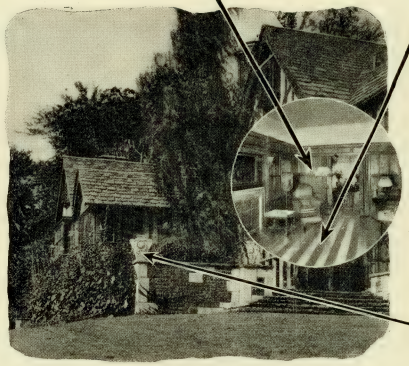
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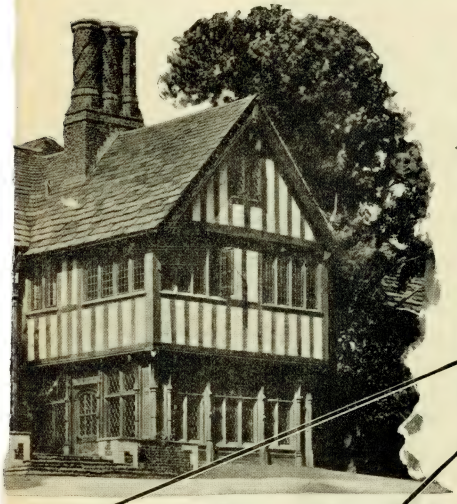


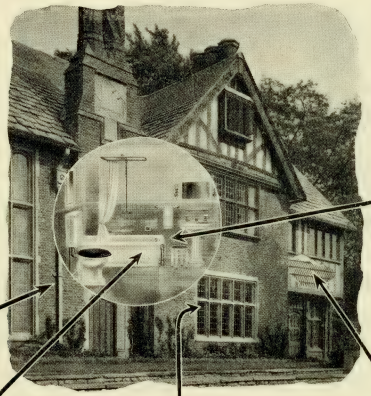


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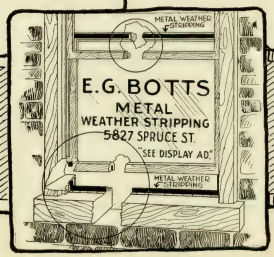
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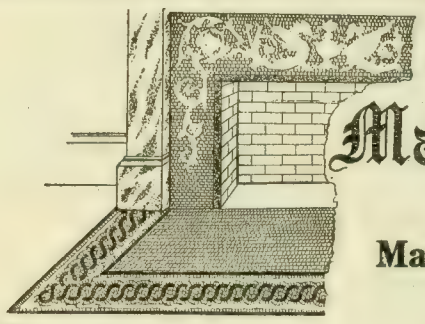


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Dwelling, Southwest Corner Park avenue and Bristol street, Philadelphia, $9,500. Architect, private plans. Owner, William Smith, 1328 Bristol street, Philadelphia. Brick, 2 stories, 16½x43 feet, slag roof, hot water heating, electric lighting. Contract awarded to E. H. Sturts, 1233 Wyoming avenue, Philadelphia.

Factory (alts.), 711 Ranstead street, Philadelphia, $7,500. Architect, private plans. Owners, Estate John Dobson, 809 Chestnut street, Philadelphia. General alterations. Contract awarded to E. H. Keefer, 1321 Rodman street, Philadelphia.

Store and Storage (alts.), Southwest Corner Thirteenth and Montgomery avenue, $5,900. Architect, private plans. Owner, Louis A. Elfman, 820 Chestnut street, Philadelphia. Brick, 1 story, 16x36 feet, slag roof, steam heat, electric lighting. Contract awarded to John Mowrer, 1546 North Lawrence street, Philadelphia.

Residence (alts.), 1917 Mount Vernon st., Philadelphia. Architect, Wm. F. B. Koelle, Otis Building, Philadelphia. Owner, K. Dietz, on premises. General alterations, new partitions, plumbing. Contract awarded to Jones J. Davies, 3915 Walnut street, Philadelphia.

Hospital, Unit A, Eighteenth and Fitzwater streets, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, Children's Hospital, on premises. Brick, cut stone, concrete and steel, 4 stories, 62x57 feet, tile and slag roof, cement, oak and terrazzo floors, rolled steel sash, tile and marble work, iron work, metal lath, hollow tile, safety treads, waterproofing, dampproofing. Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

Cow Barn, Erdenheim Farms, Chestnut Hill, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, George D. Widener, on premises. Frame, 2 stories, 60x60 feet, shingle roof, cement floors, electric lighting, 2 silos, stable equipment. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Residence (alts. and add.), 3932 Walnut street, Philadelphia, $3,500. Architect, David B. Bassett, Perry Building, Philadelphia. Owner, John Miller, 3924 Walnut street, Philadelphia. Brick, 1 story, 12x10 feet, slag roof, hot water heating. Contract awarded to George S. Roe, 6949 Saybrook avenue, Philadelphia.

Coal Trestle, Trenton avenue and Ann st., Philadelphia, $20,000. Architect, private plans. Owners, Thos. Wolstenholme Sons Co., Inc., Frankford avenue and Westmoreland street. Steel and concrete. Contract awarded to McLaughlin Bros. & McLaughlin, 2145 East Firth street, Philadelphia.

Coal Bunker, Randolph and Jefferson sts., $6,000. Architect, private plans. Owners, Roxford Knitting Mills, on premises. Steel, 80 ton capacity. Contract awarded to R. H. Beaumont Co., 315 Arch street, Philadelphia.

Manufacturing Building, 1029 Frankford avenue, $3,000. Architect, private plans. Owner, Samuel M. Rhoads, 1015 Frankford avenue. Brick, 1 story, 18x55 feet, slag roof. Contract awarded to D. A. McColgan, 3310 Higbee street, Philadelphia.

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PENNSYLVANIA Construction News

High School, Elkins Park, Pa. Architect, Herbert C. Wise, 925 Chestnut street, Philadelphia. Owner, School Board of Cheltenham Township, care of J. H. Ervien, Ogontz, Pa. Stone, plaster and brick, 3 and 1½ stories, 255x94 feet and 53x26 feet, slag and shingle roof, cement, maple and terrazzo floors, metal lath, elevators, safety treads, metal ceilings, waterproofing, fire escapes, iron stairs, hollow metal skylights, tile and marble work, stone work (heating, electric work and plumbing reserved). Architect taking bids due May 3rd at noon. Thomas Reilly, 1616 Thompson street; Standard Const. Co., 1713 Sansom street; Cramp & Co., Denckla Building; M. Melody Co., 1322 Race street, and William R. Dougherty, 1610 Sansom street, are figuring.

Buildings, Eaglesville, Pa. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Eaglesville Sanatorium, Eaglesville, Pa. Frame, 2½ stories, 43x33 feet, 20x20 feet, connecting building, 32x31 feet and 43x33 feet and 20x20 feet, shingle roof, marbleloid and pine floors, stone foundations, tile and marble work, metal lath, metal weather strip, waterproofing, iron work. Architect taking bids due April 20th. H. E. Baton, 1713 Sansom street; H. E. Grau Co., 1708 Sansom street; P. M. Sax, Franklin Bank Building, and Brookline Const. Co., Brookline, Pa., are figuring.

Residence, Swarthmore, Pa. Architects, Walter F. and William M. Price, 136 South Fourth street, Philadelphia. Owner, Warren M. Foote, 515 Elm avenue, Swarthmore, Pa. Hollow tile and stone, 2½ stories, 22x47 feet, pine floors, stone foundations, warm air heating, electric lighting, tile work. Builder E. E. Sheffer, Chester, Pa., and architects are taking sub-bids.

Church, Grant street, Turtle Creek, Allegheny County, Pa. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, Alpha Lutheran Church, care of Rev. W. A. Logan, Turtle Creek, Pa. Preliminary plans being drawn. Too early for details.

Residence, Penfield, Pa. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, H. W. Hess, care of architects. Hollow tile and plaster, 2½ stories, 26x50 feet, shingle roof, oak and pine floors, hollow tile, metal lath, stone foundations, hot water heat, electric lighting, tile work. Plans in progress.

Office Building, Birdsboro, Pa. Architect, F. H. Brooke, Washington, D. C. Owners, E. & G. Brooke Iron Co., Birdsboro, Pa. Steel, brick and terra cotta, 3 stories, slag roof, pine, tile and composition floors, stone foundations, iron work (heating and light reserved). Architect has received bids.

Public School (alts. and add.), Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Lower Merion School District, Montgomery County, Penna. Brick, terra cotta, steel and cut stone, 1 story, 62x131 feet, asbestos asphalt roof, maple floors, metal lath, iron work, stone foundations, rolled steel skylights, stone foundations (plumbing, heating and electric lighting reserved). Architect has received bids.

Boiler House, No. 3, Marcus Hook, Pa. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Viscose Co., Marcus Hook, Pa. Architects taking bids due April 21st. William Provost, r., Chester, Pa.; Cramp & Co., Denckla Building; Chester Const. Co., Chester, Pa.; Warren-Moore Co., Colonial Trust Building; W. W. Lindsay, Harrison Building; Barclay White Co., 1713 Sansom street; William R. Dougherty, 1610 Sansom street; H. E. Baton, 1713 Sansom street; P. Haibach Cont. Co., Twenty-sixth and Thompson street, and Fred T. Ley & Co., Inc., Finance Building; Hughes-Foulkrod Co., Commonwealth Building; Edw. Atkins, 249 South Twenty-fourth street, are figuring.

Residence, Kirklyn, Pa. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, Charles Stokes, care of architects. Frame, 2½ stories, 26x27 feet, shingle roof, pine floors, stone foundations, warm air heat, electric lighting, metal lath. Architects have received bids.

Residence and Garage, Elkins Park, Pa. Architect, J. Harry Parker, 129 South Fifth street, Philadelphia. Owner, Russell Spruance, 135 South Second street, Philadelphia. Stone and half timber, 2½ stories, 80x35 feet, tile roof, oak floors, stone foundations, hot water heat, electric lighting. Plans in progress.

Residence (alts.), Millbourne, Pa. Architects, Greisler-Abramson Co., Lafayette Building, Philadelphia. Owner, M. Rosenbaum, Millbourne, Pa. Interior alterations. Architects taking bids due April 14th. F. B. Davis, 240 North Sixteenth street, is figuring.

School, Springfield, Pa. Architect, Newton Flounders, Media, Pa. Owners, School Board, Springfield, Pa. Stone and steel, 1½ stories, 158x42 feet, shingle roof, cement and maple floors, metal lath, stone foundations, iron work (heating, electric lighting and plumbing reserved). Architect taking bids due April 16th. F. W. Van Loon, Perry Building; Lam Building Co., 1001 Wood street, and Harry Lindsay, Media, Pa., are figuring.

Residence and Garage, Reading, Pa., $60,000. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, name withheld. Hollow tile and plaster, 3 stories, 75x39 feet, wood shingle roof, oak floors, stone foundations, vapor heating, electric lighting, tile and marble work. Plans about completed. Will take sub-bids.

Garage, Elkins Park, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, J. Koffler, care of architect. Stone, 2½ stories, 35½x22 feet, slate roof, pine and cement floors, steam heat, electric light, plumbing. Architect has received bids.

Department Store, Power Plant and Garage, Reading, Pa. Architect, Frederick A. Muhlenberg, 901 Flanders Building, Philadelphia. Owners, Dives, Pomeroy & Stewart, Sixth and Penn streets, Reading, Pa. Brick and reinforced concrete, 7 stories, 270x0 feet. Power Plant, 1 story, 50x60 feet. Garage, 1 story, 50x100 feet, slag roof, composition, oak and pine floors, steam heating, electric lighting, tile work, hollow tile, metal lath, 3 elevators, safety treads, dampproofing, waterproofing. Contract awarded to L. H. Focht & Son, Reading, Pa.

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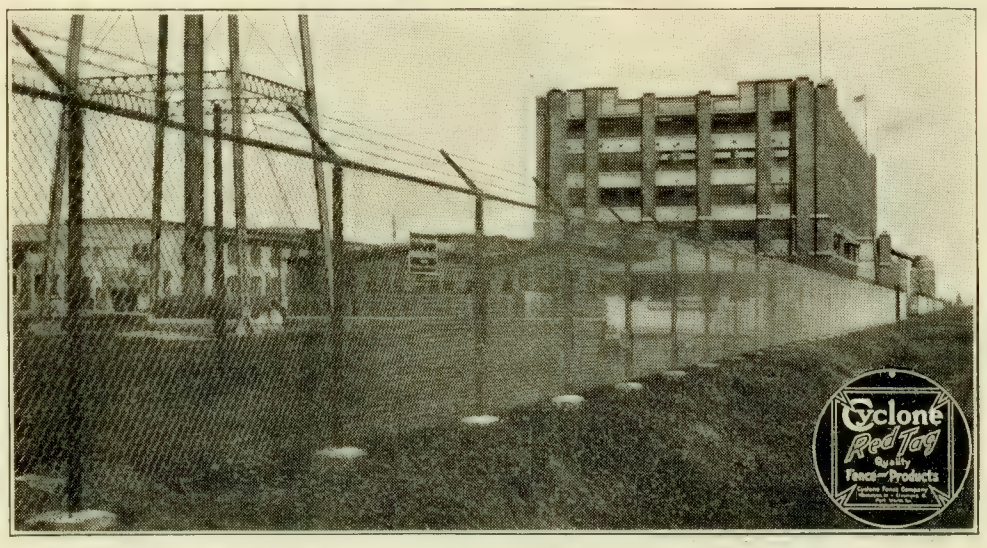
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PENNSYLVANIA
Contracts Awarded

Hospital and Nurses' Home, Johnstown, Pa. Architect, Bruno Janssen, Century Building, Pittsburgh, Pa. Owner, Cambria Steel Co., Johnstown, Pa. Brick, stone, concrete, steel and terra cotta, 3½ stories, 114x55 feet, wings, 106x28 feet, 106x28 feet and 25x36 feet, and 3 stories, 33x76 feet, slate and slag roof, concrete and oak floors, hollow tile, metal lath, elevators, stair treads, steam heating, electric lighting, tile, marble and terrazzo work, ornamental iron work, stone foundations. Contract awarded to Mellon & Stuart, Pittsburgh, Pa.

Laundry Building, Garage, Boiler Room, Pottstown, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Pottstown Hospital, Pottstown, Pa. Brick, 1 story, 30x80 feet, slate roof, cement floors, electric lighting, mill work, roof ventilators, laundry equipment. Working plans in progress. Contract awarded to F. H. Kaiser, Pottstown, Pa.

Residence and Garage, Merion, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, J. S. Wilford, Merion, Pa. Stone, 2½ stories, 40x79 feet, and 1½ stories, 29x23 feet, slate roof, pine floors, stone foundations, hot water heat, electric lighting, tile work, iron work. Contract awarded to Charles C. Pace, Merion, Pa.

Residence and Farmer's Residence, Wyomissing, Reading, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, G. Howard Bright, Reading, Pa. Stone, 2½ stories, 30x27 feet, wing 20x20 feet, and 2½ stories, 17x20 feet, shingle roof, pine floors, hot air and hot water heating, electric lighting, tile and marble work. Contract awarded to Charles H. Schlegel, Reading, Pa.

NEW JERSEY
Construction News

Store (alts.), Mt. Holly, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, H. Krupnick, Mt. Holly, N. J. New store front, interior alterations, third story brick add., tile and marble work, electric work, hardwood floors, slag roof. Architect taking bids due as soon as possible. E. W. Esham and S. H. Bodine, Mt. Holly, N. J., and Peter Turnball, Burlington, N. J.

Residence (alt. and add.), 834 Broadway, Camden, N. J. Architect, Thomas Stephens, Temple Building, Camden, N. J. Owner, Church of Sts. Peter and Paul, Rev. B. Hening, 553 Spruce street, Camden, N. J. Brick, general interior work, hardwood floors, plumbing. Owner taking bids due April 17th. J. W. Draper, William Wrifford and L. W. West, all of Camden, N. J., are figuring.

Sales and Service Building, Camden, N. J. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, name withheld. Fireproof, 1 story, 150x65 feet, slag roof, concrete floors, hollow tile, steam heating, electric lighting, cut stone work, plumbing, fire doors, iron work. Mockett Const. Co., Camden, N. J., taking sub-bids.

Bank (add.), Elmer, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, First National Bank, Elmer, N. J. Stone, 1 story and mezzanine, 29x32 feet, slag roof, pine floors, stone foundations, electric lighting (heating reserved). Architect taking bids due April 26th. J. M. Yardley, 1716 Sansom street; Graham & Wells, 3649 Filbert street, and J. Dodge, Elmer, N. J., are figuring.

Church, Aretic avenue, Atlantic City, N. J. Architect, Frank R. Watson, 1311 Walnut street, Philadelphia. Owner, St. Augustine's Protestant Episcopal Church, Atlantic City,

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N. J. Hollow tile and plaster, 1 story, 131x35 feet, stone foundations, slate roof, maple and concrete floors, steam heat, electric lighting, hollow tile, rolled steel sash, iron work, waterproofing. Architect taking revised bids due April 17th. Bowden Const. Co., 1713 Sansom street; H. John Homan, 34 South Seventeenth street, Philadelphia; Charles Thompson, Pleasantville, N. J., and Samuel Lippincott, Atlantic City, N. J., are figuring.

Residence, Trenton, N. J., $45,000. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owner, Chas. Maddock, care of Thos. Maddock's Sons, Ewing and Perry streets, Trenton, N. J. Stone, 2½ stories, 36x66 feet, stone foundations, tile roof, hardwood floors, electric light, tile and marble work. Plans in progress.

State Hospital for Insane (add.), Morris Plains, N. J., $400,000. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, New Jersey State Hospital for Insane, care of Dr. M. Curry, on premises. Brick, 3 stories and basement, 249x84 feet, hardwood floors, vacuum heat, electric light, tile and marble work, rolled steel sash and skylights, hollow tile, metal lath, elevators, roof ventilators. Architect ready for bids.

Horticultural Building, New Brunswick, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of architect. Brick and concrete, 2½ stories and basement, 136x68 feet, slate roof, reinforced floors, steam heat, electric light, tile and marble work, hollow metal skylights, roof ventilators. Architect will take revised bids.

Residences (4), West State street, Trenton, N. J., $36,000. Architect, private plans. Owners, Trenton Building Corp., care of B. Whitehead, Trenton, N. J. Brick, 16x48 feet, concrete foundations, slate roof. Owners will build.

New Jersey Contracts Awarded

Garage, 512 Pine street, Camden, N. J. Architect, Thomas Stephens, Temple Building, Camden, N. J. Owner, W. L. Hurley, Colwyn, N. J. Brick and steel, 1 story, 80x40 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to J. W. Draker, Camden, N. J.

Residence and Garage, Pleasantville, N. J. Architects, Schermerhorn & Conover, 430 Walnut street, Philadelphia. Owner, Ferdinand Stadler, Pleasantville, N. J. Frame, clapboard, 2½ stories, 25x40 feet, slate roof, hardwood and pine floors, hot water heat, electric lighting, plumbing. Contract awarded to Josiah Conover, Atlantic City, N. J.

Residence, Oakland street, Trenton, N. J., $10,000. Architect, private plans. Owner, W. G. Runkles, 429 Pennington street, Trenton, N. J. Concrete, 1 story, 50x125 feet, concrete foundations, slag roof, pine floors, electric light, tile work. Contract awarded to Trenton Building Corp., Trenton, N. J.

Houses (10), West State street, Trenton, N. J., $75,000. Owners, Park Place Land Co., Trenton, N. J. Brick, 2½ stories, 16x35 feet, concrete foundations, slate and tin roof, pine floors, electric light. Contract awarded to Frank Russo, 220 Butler street, Trenton, N. J.

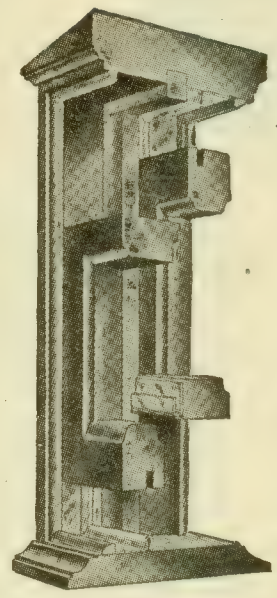
Miscellaneous Construction News

Bank Building, Wilmington, Del. Architects, W. H. Bangaard, 185 Madison avenue, New York City, and Charles H. Mills, Wilmington, Del. Owners, Industrial Savings & Loan Association, Wilmington, Del. Brick, concrete and terra cotta, 7 stories, 78x36 feet, slag roof, pine, tile and terrazzo floors, marble work, stone foundations, steam heating, electric lighting, hollow metal sash and doors, metal lath, waterproofing, iron stairs. Contract awarded to H. D. Watts, Baltimore, Md.

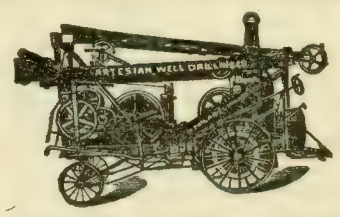
Bank Building (alts.) to Stores, 104-06 Fayette street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Julius Mintz, Baltimore, Md. Three story building, 40x110 feet, remodeling heating, electric lighting, tile and marble work, flush bulks, new partitions, plumbing. Plans completed. Architect ready for bids from Baltimore office.

Office Building, St. Helena, Md. Architect, Thomas Machin, 1324 Fidelity Building, Baltimore, Md. Owner, Chemical Pigments Corp., St. Helena, Md. Frame, 1 story, 25x36 feet, slate roof, pine floors, stone foundations, steam heat, iron work. Architect taking bids due as soon as possible. H. E. Baton, 1713 Sanom street, Philadelphia, is figuring.

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(Continued from Page 372.)

tractors serving them has upset the market and sent prices for some materials to the highest levels on record. There was an effort to cover not only for legitimate building which owners actually had funds to build, but for an immense amount of work not yet designed and without hope of financing.

The volume of orders resulting was wholly beyond the ability of material manufacturers in some lines, notably cement, to cover, and as always happens in times of shortage, whether actual or mental, some producers took advantage of the situation. The law of supply and demand operated to bring about exactly what the saner heads hoped would not happen.

I do not know that we can complain of the operations of the law of supply and demand, and yet there are times when that law can and should be hindered in its operation. I know of no better example than the action of the U. S. Steel Corporation in holding its prices level regardless of the action of other concerns selling in the same markets. The price of cement today from the Steel Corporation subsidiary is 15c to 30c under the price charged by most of the cement companies and the reason is simply that the Steel Corporation is big enough and far-seeing enough to realize that for the good of the country we must not continue to advance prices, but rather to seek means of reducing price levels, and that no mental state or theoretical demand should be permitted to upset the program which it is wise for the country to follow.

Today's situation is not one of actual shortage, at least in cement. For instance, the Illinois State Highway Commission made contracts for cement early in 1919 which, added to cement already contracted for but not used, amounted roughly to 2,000,000 barrels. The full program of road construction was not carried out, leaving 1,200,000 barrels on order against 1920 needs. Then the Commission, after due study of the situation, planned a further ambitious program and purchased rather against the will of the cement companeis, an additional 1,800,000 barrels, making a total of 3,000,000 barrels under contract for 1920 use. Manifestly that program is impossible of fulfillment.

What then of the 3,000,000 barrels contracted for by one single state, more than 3% of the cement industry's greatest annual production in the past. Unquestionably the larger part of it will be released during the year and be available for other work. But what of the effect upon the cost of cement required for other construction that should and will go ahead this year? Evidently an opportunity for the law of supply and "theoretical" demand to work. The cement companies could not sell that cement twice, no matter how reasonably sure they were of its going over for another year.

Their only course was to add its total to their obligations and when the total equalled their probable ability to ship, considering productive capacity in the light of probable supplies of labor, raw materials, fuel and transportation, to refuse to write further business. Cement stocks are said to be less than half what they should be at this season. Yet cement will probably not be the limiting factor in construction this year. Transportation service and shortage of other materials and labor, together with the high prevailing prices, will probably set a limit short of what cement stocks would permit. There may be localized cement shortages but not a general shortage. Yet the effect upon cement prices and the impossibility of covering for cement remain.

Were the State of Illinois alone in seeking more cement than it could possibly use, the situation would not be serious, but a multiude of owners have made ambitious building plans, some actuated by the desire to put away profits into plant and others by a desire to protect themselves should they perchance desire to build this year. The total of orders so resulting has caused the present situation, a theoretical shortage, whereby a legitimate project initiated today cannot be covered as to cement requirements at any price.

We cannot blame the producers, individual owners or ourselves for having been party to this orgy of covering. Each has considered his own best interests, but with a disastrous result to the

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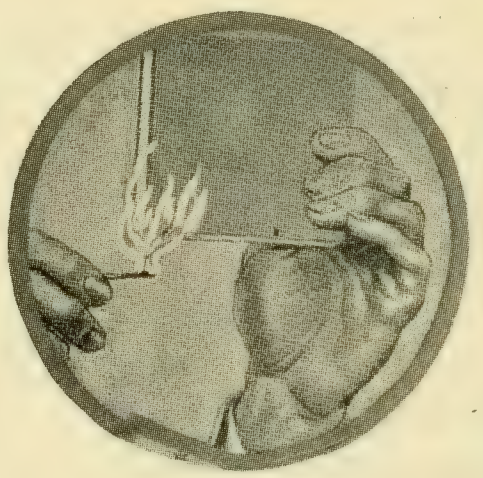
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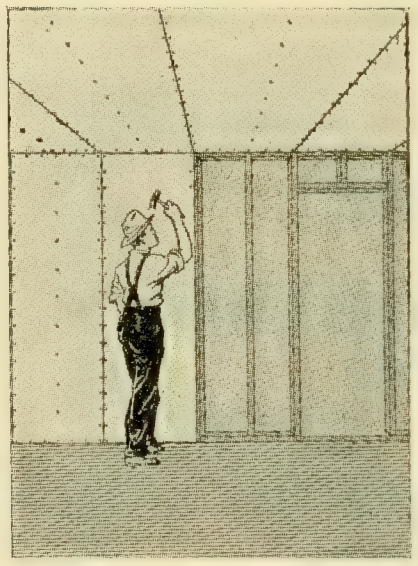
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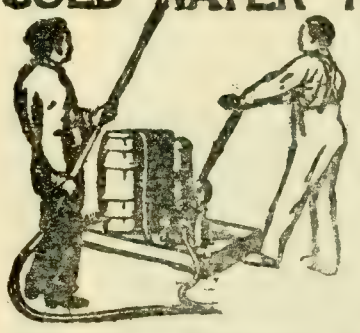
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operations of all. The Lump-Sun contract has been made almost impossible and owners hesitate to enter into cost-plus contracts without definite knowledge as to what will be the cost of basic materials.

If we could squeeze out the projects certain to go over to 1291, we could accomplish much for owners' pocketbooks and could stabilize the general construction situation greatly.

Some theoretists with considerable knowledge of the trend of industry and finance, see in the foreign exchange situation a possible arresting of production due to the impossibility of competing in foreign markets and to being flooded with imports at prices disastrous to American manufacturers who have to pay inflated dollars for raw material and labor and cannot manufacture at Europe's costs.

We see higher interest rates applied to building loans. The manufacturer who cannot finance his own new plant pays now 6% on land and 10% on building, against rates of 5% and 8% prevailing before.

As a result of these and many other factors we may see the wholesale cancellation of contracts for construction operations which can only return dividends under present inflated prices. Should such wholesale cancellations occur, we might find no shortage of the basic materials. Yet outstanding contracts for materials on work going on would still be priced at fictitious values.

Such a change could not come about except at the cost of a considerable wrench to our industrial and financial fabric. Yet the immediate effect would be to release enormous amounts of material and labor for the production of vital necessities. We are short enough of these to take all the existing man power and all the materials it is possible to produce. We have vital building needs—housing is perhaps first and roads second. We need new factory capacity for the manufacture of living necessities. Some classes of building may well wait.

What is the answer?

My belief is that the architect and contractor may advise their client who wants to erect an essential building to permit the builder to cover only for such materials as apparently are normally priced and available; with the expectation that within a short time there will be enough orders cancelled with the material producers to permit getting reasonably prompt deliveries at favorable prices; and that by staying out of the market until such time as the materials are actually needed the entire market will be steadied and freed from factors now holding it at undue levels.

The speculative promoter may well be discouraged from floating a bond issue for 105% of the present cost of a new apartment hotel. The manufacturer of non-essential commodities may well be prodded by his banker into questioning the wisdom of putting present profits into new plant whose cost will be returned only if his commodity continues to be sold at today's high prices. The State Highway Commission may well confine their plans for new construction to the limits of man power and equipment available for that work, rather than upon the mileage needed or the size of the bond issue voted.

When such general cancellation occurs, then perhaps there will be lumber, cement, nails, tile and sash sufficient for vitally needed work which can and should go ahead and prices may drop to a point corresponding to the facts of the situation.

The condition is largely a mental one and if we can be sane enough to see it and act in the only way which can help, all of us together, and not each seeking to safeguard his own little operation, we shall see a substantial betterment and the prospect of doing all legitimate work at a legitimate price.

The nation has serious problems to solve and the present wild orgy of building is only adding one more complication. There was never a greater need for legitimate building, but we shall not get the really essential building done if we attempt to carry on a "paper" program which inflates prices to the point where the home builder and the manufacturer of fairly-priced basic necessities are squeezed out of the market.

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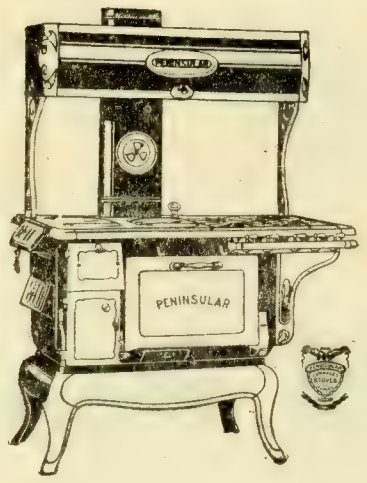
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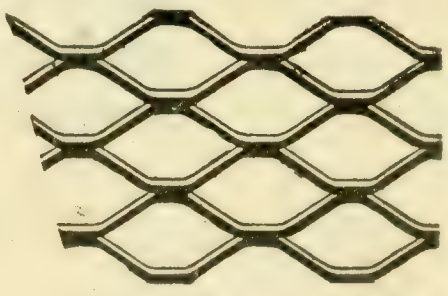
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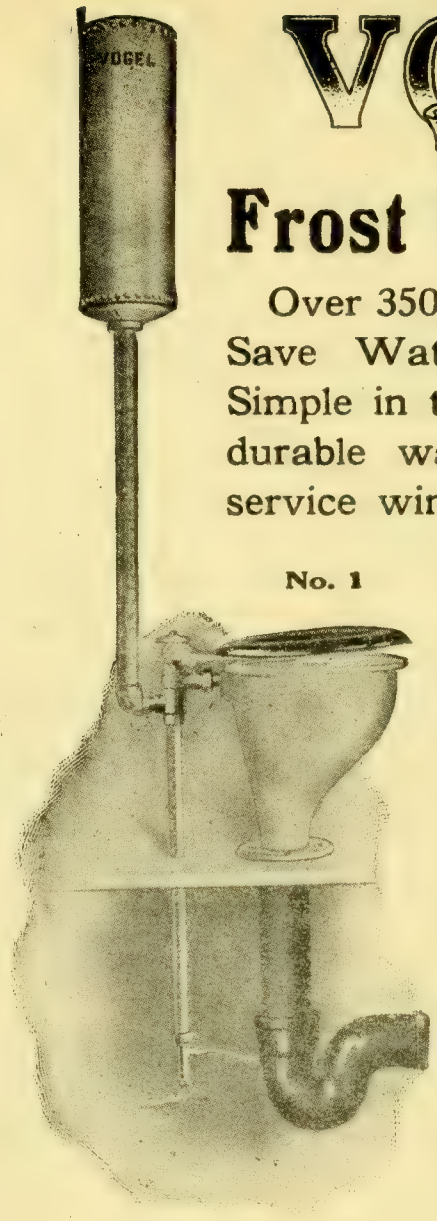
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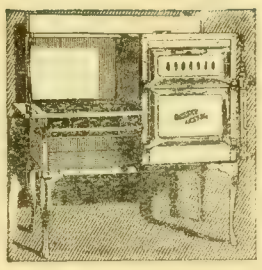
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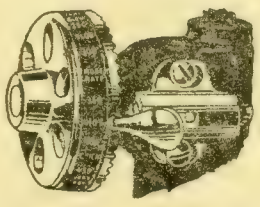
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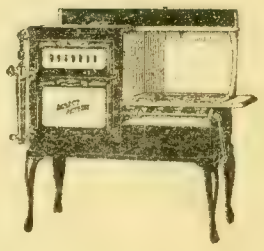
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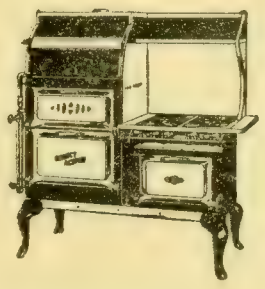
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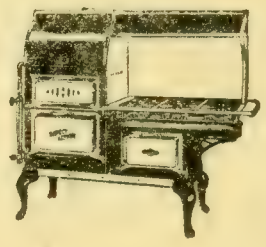


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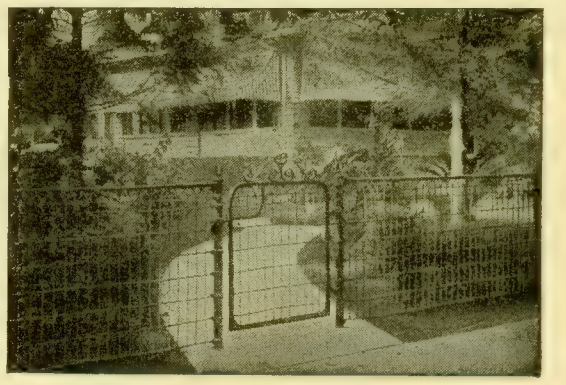
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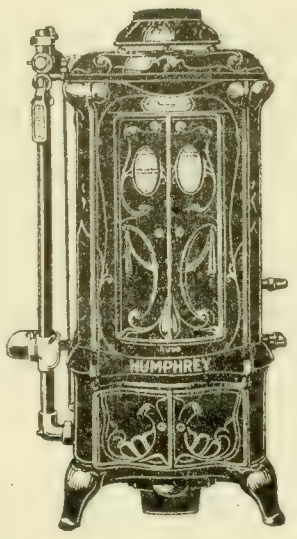
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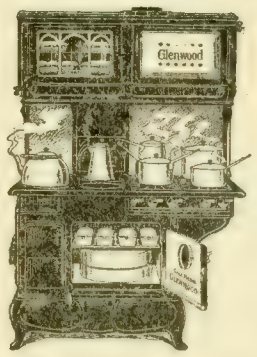
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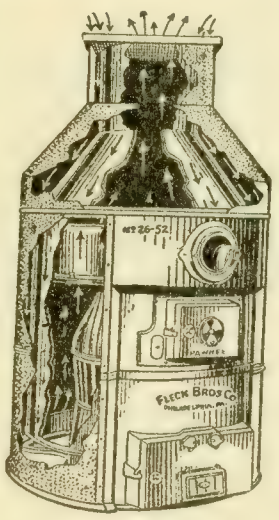


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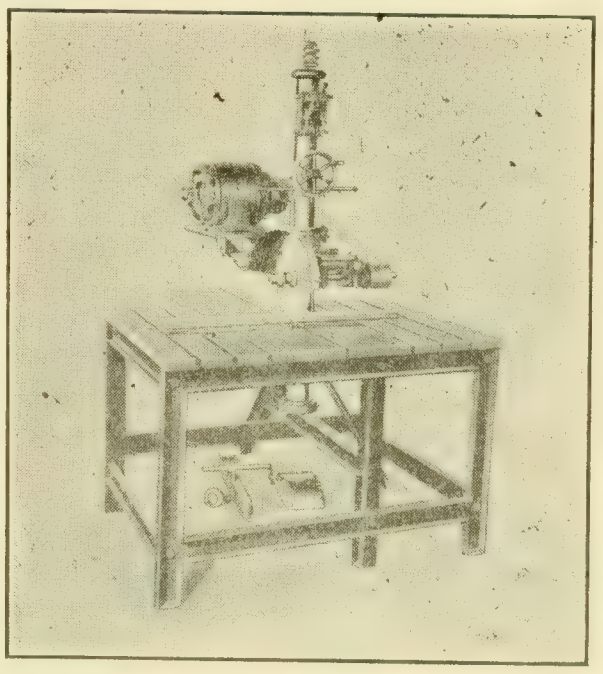
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BUILDERS' GUIDE

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As The Editor Sees It

IN these days of costly construction standardization in house building is becoming more imperative, as economy in labor and materials can thus be effected. Following standardization, improved methods of construciton have been devised and experiments made by many architects and builders.

Notable among recent developments in construction is the concrete, frame and stucco system devised and designed by Ballinger & Perrot, Philadelphia architects and engineers.

A model house on exhibit at the Master Builders Exchange clearly demonstrates the many advantages of this new form of construction. Architects, engineers and builders should take advantage of the opportunity to inspect this model, which will be exhibited for a limited time and will then be displayed in New York City.

The Ballinger & Perrot Concrete, Frame and Stucco system of construction must not be confused with the ordinary type of stucco on wood or metal lath over standard wood frame, where trouble is experienced with numerous cracks due to shrinkage and settlement.

The stucco for the Ballinger & Perrot system is made up of Portland Cement mortar and treated with water-proof materials. This water-proof treatment prevents rusting of the reinforcing metal as well as stops the passage of moisture through the 1½ in. slab. There are no cracks and no tendency to shrink or settle; the 1½ in. outer coating being backed up and supported by reinforced concrete studs and beams. The 1½ in. slab is cast with the studs and beams as a monolith, making it an extremely rigid structure, which is not only self-supporting, but carries the roof and floor loads as well, the wood and frame work only temporarily carrying the load until the concrete sets up.

After the cellar has been excavated and the stone or concrete foundation wall is built, the first floor wood joists are then set in place on the foundation walls and on this a frame, consisting of studs, hoists and rafters, is erected in the usual manner of building the skeleton of a frame house. Every fourth stud is doubled, allowing a 3 x 4 in. space between which, when filled with concrete, will form a concrete stud. At the second floor and roof levels a ledger board, with bottom attached, is placed over the studs and so arranged that when filled with concrete they form beams, which in connection with the vertical concrete studs, makes a complete homogenous concrete frame. The concrete studs when filled are continuous from foundation to roof and the main beams form continuous bands entirely around the building. In this manner the wood frame work of the building is erected. The roof is completed as well as the door and window frames before placing of the concrete. If necessary, either because of delay or for economy of construction, this wood frame work can stand for some time, as it is amply self-supporting.

The next operation is the nailing of heavy water-proof paper, on the outside of the exterior wall studs, leaving the spaces between the double studs to receive the concrete. Over the water-proof paper expanded metal or other form of reinforcement is stretched. The concrete studs and beams are reinforced with steel rods. The ledger boards have a bottom wood piece or form so that when filled with concrete they act as beams to carry the floor joists and roof rafters.

The concrete work can now be started. The 1½ in. thick concrete coating can be applied to the exterior, either by hand, cement gun or stucco machine. If applied by hand, the concrete, studs, beams and ledger boards are generally poured in advance, and a reinforcement of rather fine mesh is used. This reinforcement covers the openings left in the water-proof paper, and thus becomes the front form for the studs and beams. The concrete when poured flows only partially through the fine mesh, leaving a rough face, which later forms a good bond with a 1½ in. outer coating. When the exterior coating is applied by a cement gun or stucco machine, the reinforcing is of a larger mesh and the concrete studs and beams are filled at the same time that the outer coating is applied, the concrete

DRAWING MATERIALS

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material passing readily through the large mesh of the reinforcement.

Any desired color effects can be obtained by adding mortar stain to the concrete while it is being mixed. Also, in place of the 1½ in. concrete slab, a 4 in. brick wall can be substituted, the brick being anchored securely to the concrete studs. Variety can be obtained by having a brick first floor and a stucco second floor or by having stucco throughout with brick trim or various other combinations.

After the exterior wall is completed, metal lath is applied to the inside of the wooden studs and the interior of the building is plastered. This completely encloses the wooden studs and gives the very desirable dead air space. The wood studs act in the dual capacity of temporarily supporting the stucco and concrete frames, while ti is being placed, and later as furring strips in the finished building.

There has been no attempt made to make the entire house fire-proof, as for commercial and financial reasons it is deemed sufficient if the exterior and party walls are of fire-resisting structure, it being an established fact that in group houses with party walls made of fire-resisting materials, there is little danger of fire spreading to other houses, each house in itself being an independent unit when the spread of fire is considered. However, these are merely questions of economy, and if desired the floors can be of thin concrete slabs supported on concrete beams. As to the design of the framework, the system is extremely flexible and especially designed beams can be placed over long window openings and similar places if desired.

The B. & P. Concrete, Frame and Stucco System procures all the virtues and advantages of masonry construction, yet retains practically all the economy of wood construction. It produces a reinforced concrete masonry house, which ordinary members of the building trade may erect without especial training.

The B. & P. System can be built quickly and cheaply and a fair degree of economy can be maintained, even in the building of a few houses. The ordinary type of concrete house requires expensive standardized forms to cover the high initial cost of which, many houses of one unvarying appearance have to be built. The elastic B. &. P. system entirely avoids this monotonous sameness.

The B. & P. System has fire-resisting qualities, and all the other advantages of a typical concrete house, besides having many added features of its own. For example, the benefits which come from dead air space in the walls may be mentioned. The interior of the house is entirely free from condensation and dampness; the house is cool in summer and easy to heat in winter.

While the wooden frame house is very slightly cheaper in first cost, yet its maintenance is so high in comparison with that of the B. & P. house, that it actually costs more.

In comparing the wall of this construction with a solid monolithic wall 6 in. thick, the actual material in the concrete frame and stucco wall is just one-third what it would be in the 6 in. wall. The saving of cement, sand, etc., in the walls is sufficient to construct a reinforced concrete fireproof floor in the first floor of a house. This one fact alone is of great importance, as it permits making a basement of the house fireproof, while at the same time saving lumber which would go into the first floor construction. As the modern tendency of conservation of all our raw materials is very important, this method of construction will help to solve some of our building difficulties.

* * *

ACTIVITIES OF THE BUILDERS EXCHANGE, PHILADELPHIA

Standardization of house construction and co-operation among the builders was again emphasized by Mr. Thomas Holden at the Exchange luncheon, last Thursday. Mr. Holden's statistics were interesting and surprising and from his deductions we cannot look for any great decrease in the cost of building in the near future.

Thursday, April 22, Reverend Thomas Sparks Cline, a recruit of the Builders Exchange, who served in the 19th Engineers, U. S. A., will address the members at the weekly luncheon. The Reverent Cline has had many thrilling experiences and his address will be most entertaining.

Thomas Armstrong, Chairman of the Entertaining Committee of the Exchange, assures the members that the Annual Shad Dinner, which will be held May 13, will surpass all previous outings and has suggested a holiday be taken that day and urges everyone to make preparations for an unusually good time.

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

NO LIEN CONTRACTS (PHILADELPHIA)

Date.	Contractor.	Owner.	Building.	Location.
4/10	H. H. Wehmeyer	Wm. J. Geggis	House and Garage	N. W. Cor. 5th St., and 66th Ave.
4/10	Cates & Sheppard	Hardwick & Magee	Electrical work	7th and Lehigh Ave.
4/10	Phila. Housing Corp.	Charles W. Roberts	Garage	N. W. Cor. Greene and Tulpehocken Sts.
4/10	Frederick Broome	George Miller	Wall and Terrace	3924-6 Walnut St.
4/12	All Con. and Mat. Men	J. J. Kelly Contr. Co.	24 Houses	Fairhill St., 65th Ave.
4/12	Gold & Gerson	The Bell Market	Alts. and adds.	2646-8 North 5th St.
4/12	Kaplan-Greenstein Co.	Joseph Simon	Alts. and adds.	11-13 North 3rd St.
4/13	All Con. and Mat. Men	Phila. Housing Corp.	17 Houses	Greene and Tulpehocken Sts.
4/13	George W. Thayer	Jewish Hospital Ass'n	Alt. and add. to dispensary	York and Tabor Road.
4/13	J. Anderson Ross Co.	Isenberg & Lieberman	Millwork, 22 Houses	Warnock below Cortlandt St.
4/14	All Con. and Mat. Men	Rose Con. Co.	30 Houses	49th St., Larchwood to Osage Ave.
4/14	Irvine Armstrong	Schisler & Allen	29 Houses	Wyoming Ave and Mascher St.
4/14	F. L. Hoover & Sons	Bell Telephone	Alts. and add.	S. E. Cor. 57th and Chestnut Sts.
4/15	Braun & Stuart Co.	P. R. R.	Remodel	1729-31 Filbert St.
4/15	Stewart Bros.	Phila. Storage Battery Co.	Building	Ontario west of C St.
4/15	F. M. Venzie & Co.	Hardwick & Magee Co.	Metal lathe and plastering	7th St. and Lehigh Ave.
4/15	John J. Brogan	Rev. D. J. Dougherty	Repairs to walls	Cathedral Cemetery, West Philadelphia.
4/16	Charles Dey	W. H. W. Webb	Heating and plumbing	Sales and Service Building.
4/16	Smith & Matesky	Hardwick & Magee	Steel sash and glazing	7th St. and Lehigh Ave.
4/16	Boon & Sample	Hardwick & Magee	Plumbing and drainage	7th St. and Lehigh Ave.
4/16	E. Kooperman & Sons	Wm. J. Erwin	Painting and glazing	59th and Jefferson Sts.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (5), Marvine and Rockland streets, Philadelphia, $31,000. Architect, private plans. Owners, Joseph Friedman & Son, 2135 North Seventh street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Owners will build.

Residences (48), Sixtieth, Fifty-ninth and Jefferson streets, $393,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, James N. Mitchell, Forty-sixth and Market streets, Philadelphia. Brick, 2 stories, 16x48 feet, hot water heating, electric lighting, tile work, hardwood floors. Owner will build.

Residences (8), McCallum and Carpenter streets, Germantown, $96,000. Architect, private plans. Owner, James N. Mitchell, Forty-sixth and Market streets, Philadelphia. Stone, 3 stories, 22x34 feet, 3½x13 feet, slate roof, electric lighting, hot water heating, hardwood floors, tile work. Owner will build.

Residence, Westview and Springbank streets, Germantown, Philadelphia. Architect, Charles A. Ziegler, Bailey Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 32x65 feet, shingle roof, hardwood floors, stone foundations, electric lighting, tile work. Plans in progress.

Junior High Schools (2), Twenty-fourth and Jackson streets and Sixty-fifth and Lansdowne avenue, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Details not decided. Preliminary plans in progress.

Balcony, Small Arms Ammunition Department, Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, care of Mr. Beuter, Frankford Arsenal, Philadelphia. Structural steel and concrete, concrete floors. Lowest bidder: Monaghan & Losse, Inc., 3016 Chestnut street, $10,419.

Store and Residence (alts. and add.), 2613 Germantown avenue, Philadelphia. Architect, William H. Wooters, 816 Allegheny avenue, Philadelphia. Owner, Joseph Wittenberg, on premises. Stone foundations, carpentry, mill work and fire doors. Owner taking bids due April 23rd at noon. F. I. Wintz, 1618 North Twenty-seventh street; J. Y. Loux, Fifteenth and Hunting Park avenue; H. H. Wehmeyer, 509 West Cumberland street, and Anton Tilli, 926 Lehigh avenue, are figuring.

Building (alts.), 639 Arch street, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, Jacob Pintzuk, 508 South Fifth street, Philadelphia. New store front, brick work. Plans in progress.

Residence (alts. and add.), Rhawn street, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, Dr. C. F. Simmons, 1939 Hunting Park avenue, Philadelphia. Stone, 3 stories, new bath rooms, tile work, plumbing. Plans in progress.

Church, Ruscomb street, between Thirteenth and Camac streets, Philadelphia. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Logan Baptist Church, Broad and Rockland streets, Philadelphia. Architect taking bids due May 3rd at 8.30 P. M. A. R. Raff Cont. Co., 1635 Thompson street; E. J. Kreitzburg, 1345 Arch street; Thomas C. Trafford, 1713 Sansom street; John M. Yardley, 1716 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine street, and Wark & Co., 1737 Filbert street, Philadelphia, are figuring.

Bridge, Forty-ninth street, over P., B. and W R. R., Fortieth Ward, Philadelphia. Structural steel and concrete. **Bridges** (2), over Cobb's Creek, Cobb's Creek Parkway, Philadelphia. Concrete arches and rubble facing. **Bridge,** Harvey street, under P., G. and N. R. R., Philadelphia. Rock excavation, reinforced concrete. Owners taking bids due April 29th. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Director John C. Winston, 416 City Hall, Philadelphia.

Residence (alts. and add.), 3031 Girard avenue, Philadelphia. Architects, Rittenhouse Co., 6233 Woodstock street, Philadelphia. Owner, Brenton Wyeth, on premises. Brick and steel, 2½ stories, 8x13 feet, tin roof, pine floors, stone foundations, electric light, tile work, iron work, heating extension. **Owner** is taking bids. Smith-Hardican Co., 1606 Cherry street, is figuring.

Residences (10), Fisher's avenue, Ella and "A" streets, $74,400. Architect, private plans. Owners, Frank Nace, 4701 North Fifteenth street, Philadelphia. Brick, (2) 2 stories, 16½x42 feet, and (8) 2 stories, 15x30 feet, 12x12 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owner will build.

Residence (alts. and add.) to Apartment House, 1902 Erie avenue. Architect, Gabriel B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Brick and steel, 2 stories, 48x32 feet, slag and asbestos shingle roof, pine floors, metal lath, tile and marble work, stone foundations (heat, electric lighting and plumbing reserved). Architect has received bids.

Officers' Quarters, Frankford Arsenal, Philadelphia. Owners, United States Government, care of Maj. Lumsden, Frankford Arsenal, Philadelphia. Brick, 2½ stories, 23x58 feet, slate roof, oak and pine floors, stone foundations, hot water heat, electric light, tile work. Bids submitted, Thomas Reilly, 1616 Thompson street, Item No. 1, $62,893; No. 2, $600; Ketcham & McQuade, 1029 Brown street, No. 1, $62,636; No. 2, $900.

Shop and Office (alts. and add.), 1021-23 Cherry street, Philadelphia, $6,000. Architect, private plans. Owner, F. L. Hoover & Co., on premises. Brick, 2 stories, 18x58 feet, slag roof, electric lighting. Owners will build.

Residences (4), Sixty-sixth avenue and Eighth street, Oak Lane, Philadelphia, $56,000. Architect, private plans. Owners, J. J. Kelly Cont. Co., 6718 Old York road, Philadelphia. Brick, 2½ stories, slate roof, steam heating, electric lighting, tile work, oak and pine floors. Owners will build.

Residences (10), Eleventh, Marine street and Somerville avenue, Philadelphia, $72,000. Architect, private plans. Owner, S. A. Buckman, 1126 Somerville avenue, Philadelphia. Brick, 2 stories, 16x34 feet, 12x26 feet, 16x32 feet, 12x13 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Owner will build.

Residences (15), Tulpehocken, Greene street and Washington lane, Germantown, Philadelphia, $245,000. Architect, Arnold Mueller, 1727 Bristol street, Philadelphia. Owners, Philadelphia Housing Corp., 1304 Commonwealth Building, Philadelphia. Brick, 3 stories, various sizes, asbestos shingle roof, steam heating, electric lighting, hardwood floors, tile work. Owners will build.

Garage, Southeast Corner Taney and Lombard streets, Philadelphia, $20,000. Architect, private plans. Owner, Carl Wolf Miller, Perry Building, Philadelphia. Brick, 1 story, 74x90 feet, slag roof, steam heating, electric lighting, cement floors, rolled steel sash. Owner will build.

Offices (alts.), 508-10 Walnut street, Philadelphia. Architect Arthur C. Behr, 1326 North Robinson street, Philadelphia. Owners, Pennsylvania Fire Insurance Co., on premises. Agent, B. G. Schwerin, 416 Walnut street, Philadelphia. Carpentry, millwork, cabinet work, heating repair, plumbing. Agent has received bids.

Chapel (alt. and add.), 529 East Washington lane, Philadelphia. Architect, Ellery K. Taylor, 1627 Sansom street, Philadelphia. Owner, East Washington Lane Presbyterian Church, on premises. Brick and steel, 2 stories, 22x28 feet, slag roof, pine floors, metal lath, stone foundations, iron work. Architect taking bids due April 17th. L. W. Kitselman, 125 East Upsal street; I. A. Dunkelberger, 71 East Herman street; Samuel Harting & Son, 20 East Johnson street; William C. Wright, 22 Harvey street, and Hugh L. Downing, Delaware and Oregon avenues, are figuring.

Residences (2) **(alts. and renovation),** 202-04 Chestnut Hill avenue, Chestnut Hill, Philadelphia. Architects, Dreher, Churchman, Paul & Ford, 1424 Walnut street, Philadelphia. Owner, Mrs. Norton Downs, Chestnut Hill, Philadelphia. Mill work, brick work, plastering, 1 story, 30x18 feet, tin roof, hot air heat, electric work, plumbing, painting, glazing, stone foundations. Architects taking bids due April 23rd. Wolverton & Co., 28 East Willow Grove avenue; Stokes Bros., 6723 Musgrave street; Fred Elvidge & Son, 5522 Germantown avenue, and F. T. Mercer, 1706 Delancy street, are figuring.

Stores and Apartments (alts.), 5907-09 Mar-



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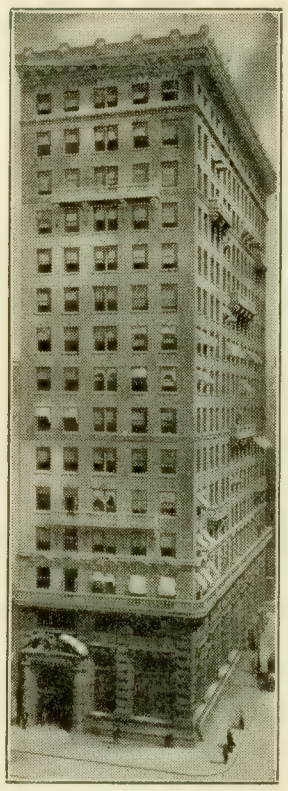
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ket street, Philadelphia. Architect, Arnold H. Mueller, 1727 Bristol street, Philadelphia. Owner, H. D. Schwarzmann, on premises. Brick work, mill work, metal lath, iron work, plate glass, plastering. Architect has received bids.

Factory, Clearfield and "A" streets, Philadelphia. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, H. C. Aberles Co., on premises. Reinforced concrete, 5 stories and basement, 80x200 feet and 60x60 feet, slag roof, cement floors, elevators, waterproofing, stone foundations, steam heat, electric lighting, rolled steel sash and skylights, fire doors, iron work. Plans in progress.

Factory, Atlantic and Ruth streets, Philadelphia. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Cambridge Worsted Mills, on premises. Brick, slow burning construction, 2 stories, 60x200 feet, slag roof, pine floors, stone foundations, steam heat, electric lighting, rolled steel sash, iron work. Plans in progress.

Power Plant and Administration Building, James and Fraley streets, Philadelphia. Architect, Stanford B. Lewis, Dexter Building, Philadelphia. Owners, Abrasive Co., on premises. Brick, 1 story, 50x60 feet, and 2 stories, 53x150 feet, slag roof, fireproof floors, electric lighting, rolled steel sash, plumbing, plastering, tile work, steam heating. Architect taking bids on administration building and will be ready for sub-bids on power house in one week.

Garages (2) **(add.),** Foulkrod sreet, East of Oakland street, $5,000. Architect, private plans. Owner, William France Sons Co., 1316 Foulkrod street, Philadelphia. Brick, 1 story, 19½x71 feet, slag roof, cement floor. Owners will build.

Residences (4), Thirteenth street, South of Medary avenue, Philadelphia, $52,000. Architect, private plans. Owner, Samuel H. P. Read, 6215 Park avenue, Philadelphia. Brick, 2 stories, 17x73 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Owner will build.

Factory, Richmond street, North of Westmoreland street, Philadelphia, $15,000. Architect, private plans. Owner, J. M. Kennedy, Jr., 406 South Van Pelt street, Philadelphia. Brick, 1 story, 80x95 feet, slag roof, steam heat, electric lighting. Owner will build.

Motion Picture Theatre, Torresdale avenue, South of Longshore street, $38,000. Architect, private plans. Owner, W. John Smith, 6832 Hegerman street, Philadelphia. Brick, 1 story, 75x180 feet, slag roof, steam heating, electric light, cement floor, fire doors. Owner will build.

Residences (7), Fisher's avenue and American street, Philadelphia, $43,000. Architect, private plans. Owner, Emil P. Stahl, 5209 North Third street, Philadelphia. Brick, 2 stories, 16x48 feet and 16x28 feet, 12x12 feet, slag roof, hot water heating, electric lighting, hardwood and pine floors. Owner will build.

Garage, Ludlow street, East of Fifty-third street, Philadelphia, $28,000. Architect, private plans. Owner, J. D. Fisher, 5414 Thompson street, Philadelphia. Brick, 1 story, 100x118 feet, slag roof, hot water heating, electric lighting, cement floors. Owner will build.

Office Building (add.), Thirtythird and Arch streets, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Edw. M. Harris, 2214 Chestnut street, Philadelphia. Brick, concrete and steel, 3 story add., 200x90 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, dampproofing, rolled steel sash, fire and kalamein doors, iron work. Architects taking bids due April 22nd. William R. Dougherty, 1610 Sansom street; Robert E. Lamb Co., 843 North Nineteenth street; Warren-Moore Co., Colonial Trust Building; Turner Const. Co., 1713 Sansom street; Irwin & Leighton, 126 North Twelfth street; H. E. Baton, 1713 Sansom street; Barclay White & Co., 1713 Sansom street, and Cramp & Co., Denckla Building, are figuring.

Film Exchange Building, 1329 Vine street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Serber & Ash, West End Trust Building, Philadelphia. Brick and limestone, 2 stories, 20x80 feet, slag roof, maple floors, stone foundations, steam heat, electric lighting, rolled steel skylights, fire doors, metal lath, metal ceilings, waterproofing, iron work. Owner taking bids due April 24th. Ketcham & McQuade, 1029 Brown street; S. Yellin, 616 Arch street, and Kaplan-Greenstein Co., 717 Walnut street, are figuring.

Shop Building, Twenty-fifth and Hunting Park avenue, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner-lessee, E. G. Budd Mfg. Co., Twenty-fifth and Hunting Park avenue, Philadelphia. Architect taking bids due April 26th. Barclay White Co., 1713 Sansom street; Cramp & Co., Denckla Building; Ketcham & McQuade, 1029 Brown street; Robert E. Lamb Co., 84 North Nineteenth street; H. E. Baton, 1713 Sansom street, and Warren-Moore Co., Colonial Trust Building, are figuring.

Dwellings, Gillingham street, west of Oakley street, $9,000. Architect, private plans. Owner, Wm. A. Kitchen, 6021 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, hot water heat, electric light. Owner will build.

Police and Fire Stations, various locations, Philadelphia. Architect, Jos. A. Roletter, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, care of Director J. T. Cortelyou, Room 215, City Hall, Philadelphia. Cement work, millwork and slag roofs on 39 fire stations. Owners taking bids, due May 5th at noon.

Paving, etc., Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of City Property, Department of Public Works, care of Director John C. Winston, 216 City Hall, Philadelphia. Laying or repairing concrete pavements, copings, curbs, step posts, etc., and granolithic finish for year of 1920. Owners taking bids, due April 30th.

Church (fire repairs), Sixteenth and Jefferson streets, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Messiah Lutheran Church, on premises. Stone, new roof, general renovation. Architect taking bids, due May 11th at 4.30 P. M. J. Sims Wilson Co., 1125 Brown street; E. E. Hollenback, Inc., 1804 Brandywine street; A. R. Raff Cont. Co., 1635 Thompson street; Bowden Const. Co., 1713 Sansom street, and Hogg Const. Co., Denckla Building, are figuring.

Residences (10), Tulpehocken and McCallum streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Leary & Conway, care of Samuel Shoemaker, Land Title Building. Stone, brick and stucco, 2 stories, 16x42½ feet, slag, slate and tile roof, stone foundations, hot water heat, electric lighting, tile

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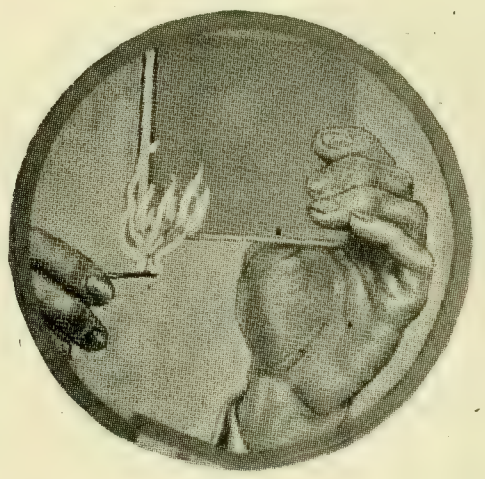
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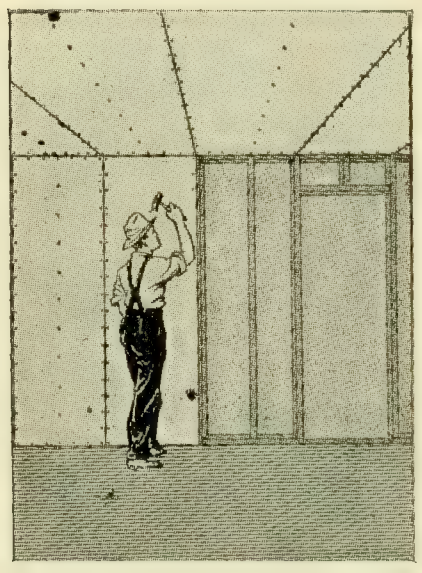
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and marble work. Plans in progress. Owners will be ready for sub-bids in a few days.

Residences (4), Tulpehocken and McCallum streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Leary & Conway, care of Samuel Shoemaker, Land Title Building. Stone, brick and stucco, 2 stories, 18x54 feet, slag, slate and tile roof, stone foundations, hot water heat, combination lighting, tile and marble work. Owners will be ready for sub-bids in a few days.

Bank (add.), Front and Norris streets, Philadelphia. Architects, Wm. Steele & Sons Co., Sixteenth and Arch streets, Philadelphia. Owners, Industrial Trust, Title and Savings Co., care of John G. Barrut, president, 1950 North Front street, Philadelphia. Limestone, terra cotta, steel and brick, 1 and 3 stories, 64x109 feet, slag roof, tile and concrete floors, stone foundations, steam heating, electric lighting, marble and terrazzo work, S. M. sash, rolled steel skylights, bank fixtures, elevators, waterproofing, iron work. Plans in progress.

Manufacturing Plant, "J" and Estaugh streets, Philadelphia. Architects, Wm. Steele & Sons Co., Inc., 1600 Arch street, Philadelphia. Owners, L. B. Luithlen Dye Works, care of engineers. Brick, slow burning. Warehouse, 2 stories, 120x60 feet; Dye House, 1 story, 195x50 feet; Boiler House, 1 story, 45x40 feet; Garage, 1 story, 30x40 feet, slag roof, cement and maple floors, elevators, roof ventilators, metal window guards, iron work, wire work, steam heating, electric lighting, S. M. sash, rolled steel skylights, fire doors, stone foundations. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Shop and Garage (alts.), 1418-20 West Dauphin street, $8,000. Architect, private plans. Owner, Frank Crentz, 2217 North Fifteenth street, Philadelphia. General alterations. Contract awarded to D. L. Moyer Co., 2344 North Carlisle street, Philadelphia.

Garage, 4710-12 D street, Philadelphia, $3,800. Architect, private plans. Owner, James Hulton, 4710 D street, Philadelphia. Brick, 1 story, 18x77½ feet, slag roof, cement floors, electric light. Contract awarded to George H. Thirsk, 4305 Horrocks avenue, Philadelphia.

Storage and Factory Building (add.), Southeast Corner Second and Erie avenue, $48,000. Architect, private plans. Owner, The Porter Sons Co., on premises. Brick, 4 stories, 21x111 feet, slag roof, pine and cement floors, electric lighting. Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

Residence, Germantown avenue and Benezet street, $12,750. Architects, Duhring & Ziegler, Bailey Building, Philadelphia. Owner, Dr. George Woodward, North American Building, Philadelphia. Stone, 2½ stories, 22x44 feet, 21x40 feet, shingle roof, hot water heating, electric lighting, oak and pine

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floors. Contract awarded to Wolverton & Co., 28 East Willow Grove avenue.

Bank (add.), Southwest Corner Fourth and Green streets, Philadelphia, $40,000. Architect, private plans. Owner, Integrity Trust Co., on premises. Brick, second story add., 24x70 feet, slag roof, steam heating, electric lighting, maple floors, tile and terrazzo work, steel work, iron work. Contract awarded to Geo. Kessler Cont. Co., Drexel Building, Philadelphia.

Omices and Storage (alts.), 1729-31 Filbert street, Philadelphia, $10,000. Architect, private plans. Owners, Pennsylvania R. R. Co., Broad Street Station, Philadelphia. General interior alterations. Contract awarded to Brann & Stuart Co., Commercial Trust Building, Philadelphia.

Factory (alts.), 1423-25 Spring Garden street, Philadelphia, $5,000. Architect, private plans. Owner, George G. Melloy, 1419 Spring Garden streets, Philadelphia. General alterations. Contract awarded to Horace H. Burrell, 206 South Quince street, Philadelphia.

Stores and Dwellings (2) **(alts. and add.),** 104-06 Spruce street, $4,000. Architect, private plans. Owner, Edwin H. Melvin, on premises. Brick, 1 story, 16x18 feet, slag roof. Contract awarded to Price Const. Co., 1414 South Penn Square, Philadelphia.

Store and Storage Building (alts.), 11 North Third street, Philadelphia, $4,500. Architect, private plans. Owner, J. Simon, 13 North Third street, Philadelphia. General alterations. Contract awarded to the Kaplan Greenstein Co., 717 Walnut street, Philadelphia.

Garages, Fifteenth street, North of Courtland street, Philadelphia, $20,000. Architect, private plans. Owner, Frederick Wilhelm, 1227 Windrim avenue, Philadelphia. Brick, 1 story, 40x173 feet, slag roof, steam heat, electric light, cement floors. Contract awarded to Stewart Bros., 2526 North Orkney street, Philadelphia.

Residence (alts. and add.), 834 North Broad street, Philadelphia, $10,450. Architect, Francis G. Caldwell, Stephen Girard Building, Philadelphia. Owner, Mrs. J. Barratt Conner, 1340 Green street, Philadelphia. Demolition, excavation, cement work, brick work, terra cotta, 1 story, 44x27 feet, steel work, carpentry, cut stone, underpinning, plumbing, plastering, painting, hollow metal skylights, tin roof, wire glass (heating and electric work reserved). Contract awarded to Mitchell Bros., 2125 Race street, Philadelphia.

Store and Residence (alts.), 5905-07 Germantown avenue, $4,200. Architect, private plans. Owner, H. McCord, 5914 Germantown avenue, Philadelphia. General alterations into 2 family houses. Contract awarded to W. Crowell, 5712 Crittenden street, Philadelphia.

Storage Building, Northwest Corner Twenty-fifth and Hunting Park avenue, $18,000. Architect, private plans. Owners, E. G. Budd Mfg. Co., on premises. Iron, 1 story, 20x100 feet. Contract awarded to Steward & Stevens, Inc., 1726 North Nineteenth street.

Garage, Southwest Corner Jasper and Letterly streets, $8,000. Architect, private plans. Owner, W. S. Ferguson, Southwest Corner Water and Cumberland streets, Philadelphia. Brick, 1 story, 50x106 feet, slag roof, cement floor, electric lighting, steam heating. Contract awarded to C. Bonner, 816 West Allegheny avenue, Philadelphia.

Residence and Garage, Northwest Corner Fifth street and Sixty-sixth avenue, $20,000. Architect, private plans. Owner, William J. Geggis, 2730 North Twelfth street, Philadelphia. Brick, 2 stories, 30x40 feet, and 1 story, 17½x18 feet, shingle roof and slate roof, hot water heating, electric lighting, oak,

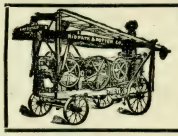


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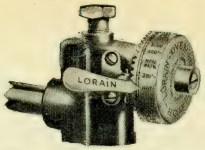
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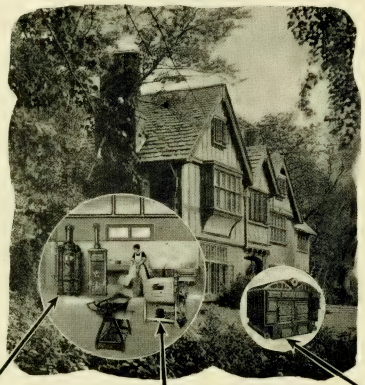
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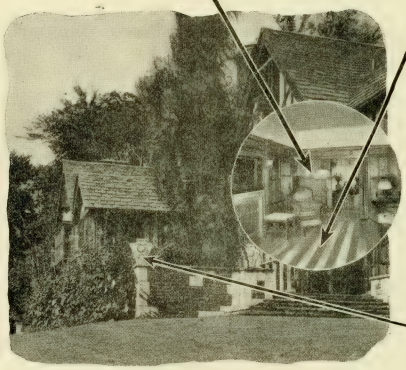
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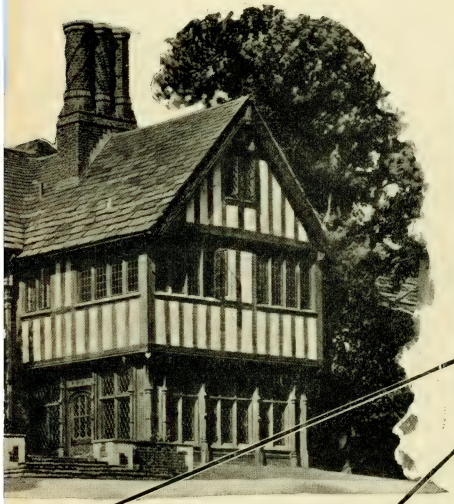
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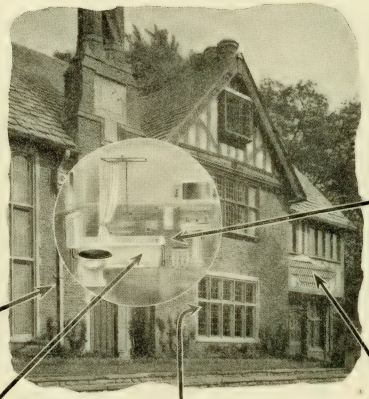




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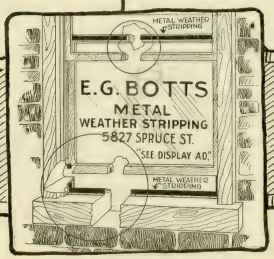
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pine and cement floors, tile work. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

Elevator Hatch, 45-51 North Seventh street, Philadelphia, $92,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, M. Kraftsow and I. Titleman, on premises. Brick, 6 stories, 8x8 feet, slag roof, electric lighting, stone foundations. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Dispensary (alts. and add.), Old York Road, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Jewish Hospital, Old York Road, Philadelphia. Stone and steel, 1 story, 18x15 feet, wing (2), tin roof, pine floors, metal lath, stone foundations, tile work, iron work (heating, electric work and plumbing reserved). Contract awarded to Geo. W. Thayer, 1233 Ludlow street, Philadelphia.

Residence (alts. and add.), 820 South Eighth street, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Mrs. Rose Cohen, on premises. Brick, 3 story rear add., 7x9 feet, slag roof, interior alterations. Contract awarded to Nicholas Altarelli, 537 Carpenter street, Philadelphia.

Mill Building, Frankford, Philadelphia. Architects, private plans. Owners, Fayette R. Plumb, Inc., Tucker and James streets, Philadelphia. Brick, steel and concrete, 1 story, 200x140 feet, slag roof, rolled steel sash, electric lighting, steam heating. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Store Building, 2943-45 Kensington avenue, Philadelphia, $7,300. Architect, J. E. Fieldstein, Penfield Building, Philadelphia. Owner, M. Robinson, on premises. Brick, 1 story, 47x22 feet, tin roof, maple floors, metal lath, roof ventilators, metal ceilings, stone foundations, hot water heat, electric lighting, tile and marble work, rolled steel skylights, store fixtures, metal bulks, iron work. Contract awarded to Frank & Kaiser, 1517 South Sixth street, Philadelphia.

Erection Shop, Seventeenth and Allegheny avenue, Philadelphia. Architect, private plans. Owners, H. S. B. W. Cochrane Corp, Seventeenth and Allegheny avenue, Philadelphia. Brick and steel, 1 story, 44x113 feet, slag roof, wood block floors, stone foundations, steam heat, electric light, rolled steel sash, steel rolling doors, iron work. Builders taking sub-bids. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Residence, Southwest Corner Sixty-fourth avenue and Fairhill street, Philadelphia, $10,000. Architect, private plans. Owner, E. M. Stephens, 4706 North Broad street, Philadelphia. Stone, hollow tile and stucco, 2½ stories, 25x39 feet, slate roof, hot water heat, electric lighting, oak and pine floors. Contract awarded to C. E. Lloyd, Jr., 6600 North Eighth street, Philadelphia.

Residence, Chelten avenue, East of Eighth street, Philadelphia, $12,000. Architect, private plans. Owner, R. C. Schmidt, 2721 North Fifth street, Philadelphia. Hollow tile and stucco, 2½ stories, 39x25 feet, 16x5 feet, slate roof, hot water heat, electric light, oak and pine floors. Contract awarded to C. E. Lloyd, Jr., 6600 North Eighth street, Philadelphia.

Open Shed, 2025 Washington avenue, Philadelphia, $5,000. Architect, private plans. Owners, Merchant Evans Co., on premises. Brick, second story, 85x24 feet, frame shed, 1 story, 48x20 feet. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

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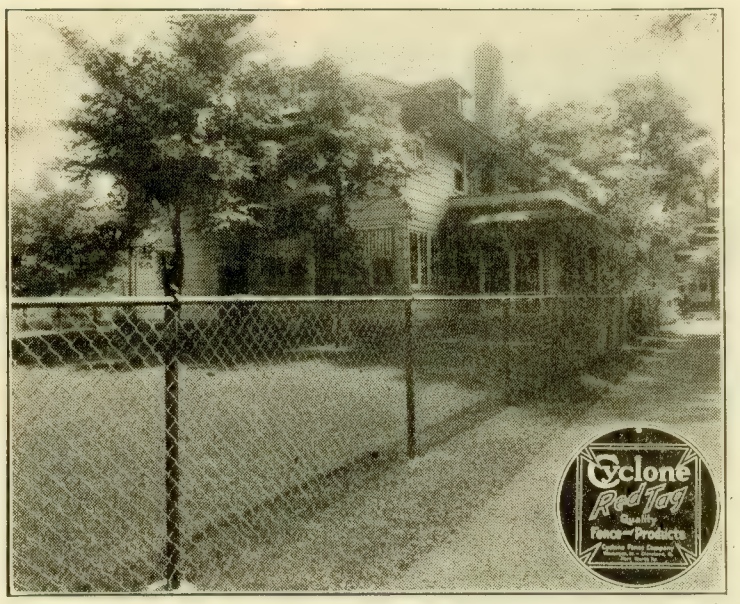
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Garage, Southeast Corner Rittenhouse and Green streets, Germantown, $12,000. Architect, private plans. Owner, T. E. Wolfrom, on premises. Brick, 1 story, 28x38 feet, slag roof, steam heat, electric lighting, cement floors. Contract awarded to J. D. Killen, 501 North Sixty-fifth street, Philadelphia.

Factory, Sansom street, West of Fiftieth street, $29,000. Architect, private plans. Owner, Paul Hafler, Twenty-first and Jefferson streets, Philadelphia. Brick, 2 stories, 45½x94½ feet, slag roof, steam heat, electric light, pine floors. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Factory (add.), Ontario and "C" streets, Philadelphia, $143,000. Architect, A. James Stewart, 2526 North Orkney street, Philadelphia. Owner, Phila. Storage Battery Co., on premises. Reinforced concrete, 4 stories, 40x220 feet, slag roof, concrete and composition floors, stone foundations, steam heat, elevators, rolled steel sash, fire doors, iron stairs, iron work. Contract awarded to Stewart Bros., 2526 North Orkney street, Philadelphia.

Intake House, Queen Lane Pumping Station, Philadelphia, $31,271. Architect, private plans. Owners, City of Philadelphia, Bureau of Public Works, care of John C. Winston, Director, Room 216, City Hall, Philadelphia. Brick, steel and terra cotta, 1 story, 55x30 feet, stone foundations, slate roof, cement floors, rolled steel sash, hollow metal doors, electric lighting. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Store and Office (alts.), 107 South Eleventh street, Philadelphia, $6,000. Architect, private plans. Owner, J. S. Richman Realty Co., 1205 Liberty Building, Philadelphia. General alterations. Contract awarded to I. Levy, 1404 South Sixth street, Philadelphia.

Garage, Eleanor street, East of Rising Sun avenue, Philadelphia, $2,500. Owner, D. Stahl's Sons, 4841 Sising Sun avenue. Brick, 1 story, 17x9½ feet, slag roof, cement floor, celctric light. Contract awarded to Emil P. Stahl, 5209 North Third street, Philadelphia.

Building (alts.), 109 Arch street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, William Hodges, on premises. Carpentry, brick and mill work. Contract awarded to Roger Atkinson, Builders' Exchange, Philadelphia.

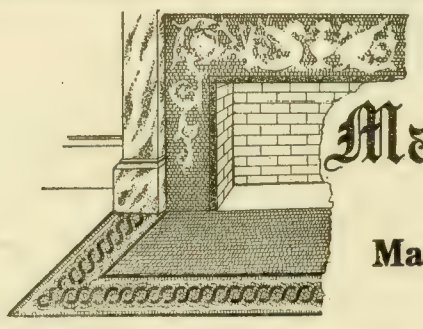
Store and Shop (alts.), 2756 Germantown avenue, Philadelphia, $3,500. Architect, private plans. Owner, Robert L. Saunders, 2710 Germantown avenue, Philadelphia. General alterations. Contract awarded to Geo. H. Evans, 45 North Thirteenth street, Philadelphia.

Residence (alts.), 1309 North Broad street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owners, E. Asher & Son, 1612 Diamond street, Philadelphia. Plastering, cabinet work, painting, interior alterations. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Warehouse (temporary), 1714-22 Lippincott street, Philadelphia, $5,000. Architect, private plans. Owners, H. S. B. Cochrane Corp., Seventeenth and Allegheny avenue. Brick, 1 story, 68x23½ feet, slag roof. Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

Factory, west side of Tacony street, north of Buckius street, $75,000. Architect, private plans. Owners, Carver File Co., on premises. Brick, 1 story, 140x196 feet, asbestos roof, cement floors (heating and lighting reserved), rolled steel sash, iron work, hollow tile, steel work. Contract awarded to Wm. Steele & Sons Co., 1600 Arch street, Philadelphia.

Boiler and Engine Room (add.), northwest corner Emerald and York streets, $10,000. Architect, private plans. Owners, Firth &



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Foster, on premises. Brick, 1 story, 14x19 feet, slag roof, electric lighting, cement work. Contract awarded to Wilson Ruff Co., Franklin Trust Building, Philadelphia.

Manufacturing Building (alts.), 27 North Seventh street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Joseph E. Frechie & Co., on premises. Brick, 5 stories, repairs to roof, oak floors, metal lath, roof ventilators, tile and marble work, hollow metal sash and skylights, kalamein doors, ornamental iron work. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Store and Office (alts.), 1309 Arch street, Philadelphia, $10,000. Architect, private plans. Owner, E. S. Seger, 12 North Thirteenth street, Philadelphia. General alterations. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

Store and Storage Building (alts. and add.), 3251 Ridge avenue, $8,000. Architect, private plans. Owner, Alexander Jellis, Thirty-third and York streets, Philadelphia. General alterations and add. brick, 3 stories, 9x20 feet, slag roof. Contract awarded to William Greiman, 8320 Brewster avenue, Philadelphia.

Residence, Unruh street, East of Oakley street, $5,700. Architect, private plans. Owner, Walter Nuskey, 6310 Argyle street, Philadelphia. Brick, 3 stories, 20x32 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Contract awarded to M. Stevens, 916 St. Vincent street, Philadelphia.

Garage (add.), 3722 Irving street, Philadelphia, $5,000. Architect, private plans. Owner, E. T. Hollock, on premises. Brick, 1 story, 24x63 feet, slag roof, steam heating. Contract awarded to Thomas Morrell, 5236 Market street, Philadelphia.

Residence and Store (alts. and add.), 1736 Columbia avenue, $2,900. Architect, private plans. Owner, Louis Givontz, 954 North Second street, Philadelphia. Brick, 1 story, 12x16 feet, slag roof, electric lighting. Contract awarded to A. P. Lucker, 5136 Parkside avenue.

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PENNSYLVANIA Construction News

Residence and Garage (alts. and add.), Wynnewood, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, S. Worcester Sargent, Wynnewood, Pa. Stone, 2½ stories, 14x23 feet, garage, 39x27 feet, shingle roof, pine and cement floors, stone foundations, hot water heat, electric lighting, iron work. Architect has received bids.

Residence, Drexel Hill, Pa. Architect, Samuel J. Horn, care of owner. Owner, Dr. D. J. Rothermel, Twenty-sixth and Federal streets, Philadelphia. Stone, 2½ stories, 36x32 feet, slate roof, oak and pine floors, stone foundations, hot water heat, tile work (lighting reserved). Owner taking bids as soon as possible. J. H. Feeser, Liberty Building, Philadelphia, and Geo. Mink, Highland Park, Pa., are figuring.

Department Store (add.), Pittsburgh, Pa. Architect, Bruno Janssen, Pittsburgh, Pa. Owners, Joseph Hornes Co. Store, Stanwix street, Duquesne Way, Pittsburgh. Brick, terra cotta, stone and steel, 7 stories, 420x120 feet, slag roof, maple floors, stone foundations, vacuum heat, electric light, tile and marble work, ornamental iron work, metal lath, elevators, waterproofing. Architect taking preliminary estimate due April 22nd, from Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Residence, Springfield, Pa. Architect, private plans. Owner, William S. Everett, 1928 South Sixty-fifth street, Philadelphia. Frame, 2½ stories, 52x33 feet, shingle roof, pine floors, stone foundations, hot water heat, electric lighting, iron work. Owner taking bids due April 24th. Stokes Bros., 6723 Musgrave street, are figuring.

Church (alts.) and Parsonage, Main street, Darby, Pa. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Mt. Zion Methodist Episcopal Church, Darby, Pa. General alterations to church, parsonage, stone and brick, 2½ stories, slate roof, hot water heating, electric lighting, tile work. Plans in progress.

Residence, Lincoln avenue, Lansdowne, Pa. Architect, E. E. Hendrickson, 925 Chestnut street, Philadelphia. Owner, Helen J. Wright, care of architect. Brick and stucco, 2½ stories, 49x44 feet, canvas roof, pine floors, steam heat, electric lighting, tile work, iron work. Architect taking bids due April 20th. H. E. Grau Co., 1708 Sansom street; J. Sims Wilson

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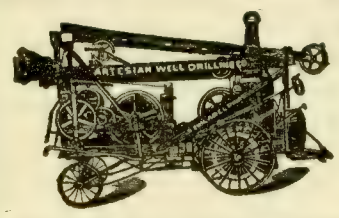
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Co., 1125 Brown street; J. Howard Roberts, Lansdowne, Pa.; T. S. Fetter, 1629 Filbert street, and Graham & Wells, 3649 Filbert street, Philadelphia, are figuring.

Garage, Lewistown, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, name withheld. Brick, concrete and steel, 1 story (provision for additional stories), 75x156 feet, 86x75 feet and 47x150 feet, slag roof, cement floors, roof ventilators, steam heat, electric lighting, rolled steel sash, hollow metal skylights, concrete foundations. Plans in progress.

Residences (10), Lock Haven, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, name withheld. Brick and hollow tile and stucco, 2½ stories, 26x40 feet, slate roof, pine floors, stone foundations, hot air heat, electric lighting, plumbing. Plans in progress. Architects will be ready for bids in a week.

School, Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, School Board, Lower Merion, Ardmore, Pa. Brick, terra cotta, steel and cut stone, 1 story, 62x131 feet, asbestos asphalt roof, maple floors, metal lath, iron work, stone foundations, rolled steel skylights, stone foundations (plumbing, heating and electric lighting reserved). Revised plans in progress.

Tribute House, Merion, Pa., $150,000. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, Merion Civic Association, care of Joseph McCall, chairman of Building Committee, 1000 Chestnut street, Philadelphia. Brick and stone, 1½ stories, 130x140 feet, slate and slag roof, cork and maple floors, stone foundations, steam heat, electric lighting, tile and marble work, metal lath, iron work. Architects taking bids due April 27th at 9 A. M. F. L. Hoover & Son, 1023 Cherry street; William R. Dougherty, 1610 Sansom street; H. E. Grau Co., 1708 Sansom street, and Doyle & Co., 1519 Sansom street, are figuring.

Residence, Bywood, Pa. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owner, Charles A. Gillingham, Twelfth and Morris streets, Philadelphia. Hollow tile and plaster, 2½ stories, 27x40 feet, shingle roof, oak floors, hot water heat, electric light, tile work. Architects taking bids due May 3rd. D. Ridgway Evans, Beechwood Park, Pa.; C. Nelson Rocholl, 217 Northeast Boulevard; John D. Mosser, 1709 Moravian street, and J. H. Feeser, Liberty Building, are figuring.

Residence, Glenside, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Elizabeth Oliver, care of architect. Hollow tile and plaster, 2½ stories, 28x56 feet, shingle roof, stone foundations, hot water heat, electric lighting, tile and marble work, hollow tile. Plans in progress. Will be ready for bids in ten days.

Store and Residence (alts. and add.), Ardmore, Pa. Architect, H. L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Edw. J. Lyons, Ardmore, Pa. Brick, 2 stories, 26x75 feet, slag roof, pine floors, electric light, plumbing (heating reserved). Architect taking bids due April 28th. Frank H. Mahan, Herbert Foster, Theodore Spencer, all of Ardmore, Pa.; Robert T. Burns and W. W. Wanopp, Haverford, Pa.; Powell Dilworth, H. P. Wolfe & Co., Bryn Mawr, Pa., and M. Smedley, Narberth, Pa., are figuring.

Bungalow, Penfield, Pa. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owner, Dr. L. J. Van Derpool, 2904 Girard avenue, Philadelphia. Architect taking bids due April 23rd. Charles C. Pace, Merion, Pa., is figuring.

Church, Kulpmont, Pa. Architect, Paul A. Monaghan, Bailey Building, Philadelphia. Owner, Roman Catholic Congregation, Kulpmont, Pa. Frame, 1 story, 34x60 feet, shingle roof, concrete foundations, pipeless heating, electric lighting. Architect has received bids.

Building (alt. and add.), Chester, Pa. Architect, Clarence W. Brazer, 1133 Broadway, New York City. Owners, Turner Supply Co., Chester, Pa. Brick and steel, 2 stories, 14x29 feet, stone foundations, tin roof, pine floors, steam heat, electric lighting, iron work. Architect has received bids.

Residences (4), Wayne, Pa. Architects, Boyd, Abel and Gugert, Estey Building, Philadelphia. Owners, Fallon & Harris, Wayne, Pa. Stone, hollow tile and stucco, 2½ stories, 24x26 feet, slate roof, stone foundations, electric lighting, tile work, plumbing, hardwood floors. Owners are taking sub-bids.

Bank, Northampton, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Cement National Bank, Northampton, Pa. Stone, brick, 3 stories, 60x90 feet, steam heat, electric light, tile floors, tile, marble and terrazzo work, hollow metal skylights, bank fixtures, roof ventilators. Plans in progress.

Garage (alt. and add.), Catasauqua, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Lynch & Dugan, Catasauqua, Pa. Brick, second story add., raising roof, cement floors, steam heat, steel work, elevators. Plans in progress.

Mill Building (add.), South Allentown, Pa. Architect, Henry Anderson, Stiles Building, Allentown, Pa. Owners, Phillips & Jones Co., 1150 Broadway, New York. Brick, 2 stories, 63x144 feet, slag roof, hardwood floors, electric lighting, hollow metal sash, roof ventilators. Architect ready for bids.

Bungalow, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, Mrs. Betty Miller, 145 Third street, Easton, Pa. Stucco, 1½ stories, 23x33 feet, concrete foundations, slate roof, hardwood floors, electric lighting. Owner ready for general bids.

School (Annex), Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Allentown School Board, care of G. P. Wenner, secretary, School Administration Building, Allentown, Pa. Brick, fireproof, 2 stories and basement, 100x118 feet, asphalt roof, concrete and tile floors, electric light, tile and terrazzo work, rolled steel skylights, fire doors, roof ventilators, metal window guards. Board ready for bids due May 25th.

Dormitory Building, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Allentown College for Women, care of architect. Brick, 3 stories, 124x40 feet, tile roof, hardwood floors, vapor heating, electric lighting, tile work. Plans completed. Architect will sub-let.

Silk Mill, Pottsville, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Phoenix Silk Mfg. Co., Race and Court streets, Allentown, Pa. Brick, mill construction, 2 stories, 150x50 feet, stone foundations, slate roof, plank floors, electric lighting, hollow metal skylights, fire doors, elevators, roof ventilatrs. Architects taking bids on revised plans due April 28th. Tilgham Moyer, 824 Hamilton street; Ochs Const. Co., Wire street, Allentown, Pa., and Walter Wertley & Son and Gordon Nagle, Pottsville, Pa., are figuring.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, Lewis

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S. Sadler, State Highway Commissioner, Capitol Building, Harrisburg, Pa. The following are the low bidders on road work opened April 13th:

Beaver County, Route 204, Darlington Township and Darlington Borough, length 26,953 feet. One course reinforced concrete. The J. C. Devine Co., Alliance, Ohio, $433,-428.00.

Beaver County, Center Township, Appli. 254. Vitrified brick. The J. C. Devine Co., Alliance, Ohio. $49,622.00.

Crawford County, Cambridge Township and Cambridge Spring Borough, Route 84, length 18,121 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. H. E. Bunce, Olean, N. Y., $209,473.60.

Delaware County, Upper Darby Township, Route 130, length 4,269 feet. Bituminous surface course on a concrete foundation. Eastern Paving Co., Colonial Trust Building, Philadelphia, $47,642.78.

Huntingdon County, Mill Creek Borough, Route 33, length 4,243 feet. One course reinforced concrete. Standard Cont. Co., Altoona, Pa., $46,206.40.

Lycoming County, Jackson, Cogan House and Lewis Townships, Route 21, length 52,520 feet. One course reinforced concrete. H. S. Kerbaugh and R. G. Collins, Jr., 120 Broadway, New York, $1,083,057.

Mercer and Lawrence Counties, Wilmington Township, Lawrence County, Wilmington, Shenango and Hickory Townships and West Middlesex Borough, Mercer County, Route 238, length 51,915 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. The Donald McNeill Co., Pittsburgh, Pa., $772,-185.84.

Schuylkill County, Blythe and Schuylkill Townships and Tamaqua Borough, Route 162. One course reinforced concrete. Pottsville Const. Co., Pottsville, Pa., $526,140.65. Total bid, $5,257.00.

Warren County, Sugar Grove and Farmington Townships, Route 279, length 40,485 feet. One course reinforced concrete. Carey-Campbell & Co., New York, N. Y., $520,659.85.

Westmoreland County, Derry Township, Route 68, length 32,047 feet. One course reinforced concrete and Hillside vitrified brick. McCrady Bros. Co., Braddock, Pa., $495,-203.95.

Armstrong County, Kiskiminetas Township, Route 188, length 10,610 feet. One course reinforced concrete. Record Const. Co., Elmira, N. Y., $124,918.40.

Cambria County, Richland and Stony Creek Townships and Scalp Level Borough, Route 222, length 24,207 feet. One course reinforced concrete. Torquato Bros. Co., Windbur, Pa., $364,513.51.

Cambria County, Allegheny and Cambria Townships and Ebensburg Borough, Route 53, length 24,431 feet. One course reinforced concrete and Hillside vitrified brick. Polo C. Azzara, Cresson, Pa., $364,171.65.

Delaware County, Springfield and Swarthmore Townships, Route 225, length 8,117 feet. One course reinforced concrete. William C. Evans, Ambler, Pa., $83,201.10.

Erie County, Waterford and Summit Townships, Route 84, length 44,700 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Carey-Campbell Co., New York, N. Y., $520,755.60.

Fayette County, Stewart and Wharton Townships, Route 366, length 26,267 feet. Either bituminous macadam (penetration method) on a broken stone base and Hillside vitrified brick or one course reinforced concrete. Cunningham & Murray, Philadelphia, $370,018.13.

Greene County, Center Township, Route 111, length 10,620 feet. One course reinforced concrete. Newman & Woy, Boswell, Pa., $157,-953.81.

Lawrence County, Pulaski Township, Route 81, length 28,644 feet. One course reinforced concrete. Woods & Golder Const. Co., New Castle, Pa., $320,331.35.

Montgomery County, Mortland and Horsham Townships, length 25,950 feet. One course reinforced concrete. Ambler-Davis Co., Harrison Building, Philadelphia, $281,-406.00.

Potter County, Shinglehouse Borough, Route 236, length 8,358 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Geo. Metzger, Jr., Emporium, Pa., $77,581.20.

Susquehanna County, New Milford and Hallstead Boroughs and New Milford and Great Bend Townships, R-10, length 29,958 feet. One course reinforced concrete. H. B. Sproul Const. Co., Scranton, Pa., $294,163.80.

Warren County, Mead Township and Clarendon Borough, Route 95, length 3,933 feet. One course reinforced concrete. Martin Dolan, Jamestown, N. Y., $264,221.07.

Washington County, North and South Strabane Townships, Route 181, length 22,845 feet. One course reinforced concrete and Hillside vitrified brick. Samuel Gamble Co., Carnegie, Pa.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, State Capitol Building, Harrisburg, Pa. Bids will be opened at 10 A. M., April 27th, at State Capitol. Forms and specifications free. Plans, $2.50 per set.

Crawford County, Route 82, East and West Fallowfield and Sadsbury Townships and Conneaut Lake Borough, length 29,525 feet. Either bituminous surface course on concrete foundations or one course reinforced concrete. Certified check, $4,000.

Crawfrd County, Route 82, Sadsbury and Vernon Townships, length 18,161 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $3,500.

Erie County, Route 84, Le Beouf and Waterford Townships and Waterford Borough, length 35,492 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $4,000.

Erie County, Route 295, Girard Township and Platea Borough, length 21,268 feet. One course reinforced concrete. Certified check, $4,000.

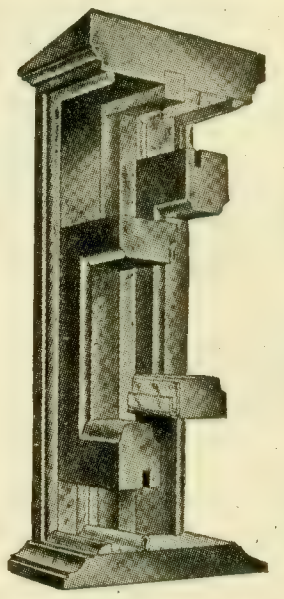
Fayette County, Route 288, Perry Township, length 15,323 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $3,000.

Huntingdon County, Route 352, Petersburg Borough, length 3,007 feet. One course reinforced concrete. Certified check, $1,000.

Jefferson County, Route 64, Brookville Borough, length 1,684 feet. Vitrified brick. Certified check, $1,000.

Yycoming-Tioga Counties, Route 21, Hamilton, Bloss and Liberty Townships and Liberty Borough, Tioga County, and Jackson Township, Lycoming County. One course reinforced concrete. Certified check, $4,000.

Schuylkill County, Route 290, Mahanoy and West Mahanoy and Butler Townships and Shenandoah and Girardville Boroughs, length



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53,613 feet. Bituminous surface course on concrete foundation and bituminous macadam (penetration method) on Telford or broken stone foundation, and one course reinforced concrete and vitrified brick. Certified check, $4,000.

Venango County, Route 233, Victory and Sandy Creek Townships, length 50,025 feet. One course reinforced concrete and Hillside vitrified brick. Check, $4,000.

Washington County, Route 181, Somerset and Nottingham Townships, length 16,137 feet. One course reinforced concrete. Certified check, $3,500.

Aork County, Route 126, West York Borough and West Manchester Township, length 4,136 feet. Bituminous surface course on concrete foundation. Certified check, $1,000.

Branch Office Building, Marcus Hook, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Cambria Trust Co., Chester, Pa. Brick and terra cotta, 2 stories, 30x50 feet, slag roof, pine and terrazzo floors, metal lath, stone foundations, hollow metal sash, iron work (plumbing, heating and electric work reserved). Architects taking bids due April 27th. H. E. Grau Co., 1708 Sansom street; John R. Wiggins Co., Otis Building; Bowden Const. Co., 1713 Sansom street, Philadelphia; William Provost, Jr., Chester, Pa., and J. Harry Richardson, Chester, Pa., are figuring.

Club House and Swimming Pool, Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Aberfoyle Mfg. Co., Chester, Pa. Brick and stucco, 1½ stories, 91x200 feet and 100x42 feet, asphalt shingle roof, marbleoid and composition floors, stone foundations, waterproofing, iron work (heating, electric work and plumbing reserved). Architect taking bids due April 27th. John R. Wiggins & Co., Otis Building, Philadelphia, are figuring.

Residence, Montgomery avenue and Rose lane, Haverford, Pa. Architects, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Charles C. Norris, Jr., West End Trust Building, Philadelphia. Hollow tile, stucco and steel, 2½ stories, 68x34 feet, wing 17x16 feet, slate and canvas roof, oak and pine floors, stone foundations, tile work, hollow tile, metal lath, tile work, iron work. Architect taking bids. Thomas C. Trafford, 1613 Sansom street; Herbert G. Campion, Otis Building, and A. L. Fretz & Son, Heed Building, Philadelphia, are figuring (heating, electric work, slate roof, material only).

Residence, Haverford, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Robert W. Wigton, Morrisdale Coal Co., Ardmore, Pa. Hollow tile, stucco and steel, 2½ stories, 87x19 feet, wing 18x25 feet, canvas and slate roof, oak and pine floors, metal lath, stone foundations, tile work, iron work, parquetry floors (slate roof, material only), heating and electric work reserved. Architect taking bids. A. L. Fretz & Son, Heed Building; Thomas C. Trafford, 1613 Sansom street, and Herbert G. Campion, Otis Building, are figuring.

School, Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, School Board, Lower Merion Township, Ardmore, Pa. Brick, terra cotta, steel and cut stone, 1 story, 62x131 feet, asbestos asphalt roof, maple floors, metal lath, iron work, stone foundations, rolled steel skylights, stone foundations (plumbing, heating and electric lighting reserved). Architects taking revised bids due May 1st. John R. Wiggins & Co., Otis Building; A. L. Fretz & Son, Heed Building; Bowden Const. Co., 1713 Sansom street; H. E. Grau Co., 1708 Sansom street; Graham & Wells, 3649 Filbert street, and J. E. Kearney, 34 South Seventeenth street, are figuring.

Pennsylvania Contracts Awarded

Bungalow, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, Henry Yahares, South Side, Easton, Pa. Brick, 1 story, 36x20 feet, slate roof, hardwood floors, hot air heating, electric lighting. Contract awarded to Frank Kline, 119 East Wilkes-Barre street, Easton, Pa.

Auto Show Room and Apartment, East Broad street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, F. O. Messinger, East Broad street, Bethlehem, Pa. General interior work. Contract awarded to F. Glassmire, Bethlehem Trust Building, Bethlehem, Pa.

Residence, Lansdowne Court, Lansdowne, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Mrs. John M. Shrigley, Lansdowne, Pa. Hollow tile, brick and plaster, 2½ stories, 40x45 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Contract awarded to William N. Thompson, 1529 Filbert street, Philadelphia.

New Jersey Construction News

Sewerage Screening Plant and Sewerage Pumping Station, Pleasantville, N. J. Architects, Remington & Vosbury, Camden, N. J. Owners, City of Pleasantville, Atlantic County, N. J. Concrete, brick and stucco, 1 story, 33x20 feet and 20x12 feet, asbestos shingle roof, concrete floors, metal lath, ventilators, stone foundations, iron work (electric work reserved). Owners have received bids.

Court House (alts.), Belvidere, N. J., $20,000. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Board of Freeholders, care of Morris Faust, on premises. General interior alterations, steam heating, pine floors, painting, electric wiring. Owners ready for general bids due May 12th.

School (add.), Camden, N. J. Architects, Berry & Cummiskey, Real Estate Trust Building, Philadelphia. Owner, Roman Catholic Church of Sacred Heart, care of Rev. J. B. McCloskey, Camden, N. J. Brick, concrete and steel, 2 stories, 85x48 feet, slag roof, concrete and pine floors, hollow tile, iron work, stone foundations (electric light, plumbing, heating and plastering reserved). Architects taking bids due April 23rd. M. Melody & Co., 1322 Race street; T. J. and J. R. Whelan, 1011 Chestnut street; J. S. Rogers Co., Drexel Building, Philadelphia, and Geo. Bachmann, 19 North Thirtieth street, Camden, N. J., are figuring.

Residences (10), Trenton, N. J., $40,000. Architect, private plans. Owner, Samuel Hilton, 24 Forst Richey Building, Trenton, N. J. Brick and frame, 2½ stories, 14x29½ feet, concrete foundations, slate and tin roof, hardwood and pine floors, steam heat, electric light, tile work. Plans in progress.

Residence, Hamilton avenue, Trenton, N. J., $8,000. Architect, private plans. Owner, Elmer H. Stout, 343 Berwyn street, Trenton, N. J. Concrete block, 2½ stories, 20x52 feet, slate roof, hardwood floors, electric light, tile work. Owner will build.

Residences (6), Trenton, N. J., $30,000. Architect, private plans. Owner, Charles M. McDermott, Forst-Richey Building, Trenton, N. J. Hollow tile and stucco, 2½ stories,

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16x40 feet, concrete foundations, slate roof, pine floors, electric lighting, tile work. Owner will build.

Settling Basin, Moorestown, N. J. Consulting engineer, William H. Boardman, 426 Walnut street, Philadelphia. Tp. engineer, Henry J. Sherman, 306 Temple Building, Camden, N. J. Owner, Township Committee of Chester Township, Town Hall, care of Township Clerk, Charles Laessle, Moorestown, N. J. 75 cubic yards of excavation, 280 cubic yards reinforced concrete work and labor. Owners taking bids due April 26th, at 8 P. M. Plans may be secured from engineers' offices upon deposit of check for $5.00. Certified check for $1,000 must accompany each bid.

Residence, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, F. Elliott, care of architect. Frame, 2½ stories, 36x36 feet, slate roof, pine floors, hot water heating, electric lighting, tile work. Plans in progress.

Residence (alt. and add.), Lambertville, N. J.. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, E. W. Hunt, Lambertville, N. J. Brick, 2 stories, 15x15 feet and 10x16 feet, slate roof, hardwood floors, general interior alterations, new plumbing (plumbing fixtures reserved). Owner taking general bids. George W. Arnett, Lambertville, N. J., is figuring.

Residence, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Albert Collier, Bordentown, N. J. Brick, 2½ stories, 23x40 feet, brick foundations, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Owner taking bids. A. Mitchell, Miller & Son, C. D. Anderson and Fenemore & Firth, all of Bordentown, N. J., are figuring.

Horticulture Building, New Brunswick, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, State of New Jersey, care of architect. Brick and concrete, 2½ stories and basement, 136x68 feet, slate roof, reinforced concrete floors, steam heating, electric lighting, tile and marble work, hollow metal skylights, roof ventilators. Architect taking revised bids due April 28th. N. J. Hodgkinson, 167 Market street; Gorn Van Dale Co., Essex Building, both of Newark, N. J.; Hudson Const. Co., Longacre Building, New York; Standard Const. Co., 1713 Sansom street; Thomas Reilly, 1616 Thompson street, and J. S. Rogers, Drexel Building, all of Philadelphia, are figuring.

Residences (10), Trenton, N. J., $40,000. Architect, private plans. Owner, Samuel Hilton, 24 Forst Richey Building, Trenton, N. J. Brick and tile, 2½ stories, 16x34 feet, concrete foundations, slate and tin roof, hardwood and pine floors, steam heat, electric light, tile work. Owner will build.

New Jersey Contracts Awarded

Club House, Merchantville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, Merchantville Country Club, Merchantville, N. J. Concrete foundations work awarded to Prince Concrete Co., Camden, N. J. Residence to be moved to foundations and converted into club house.

Office Building, 328 Market street, Camden, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Albert S. Woodruff, 319 Market street, Camden, N. J. Brick, 3 stories, 20x96 feet, slag roof, pine floors, stone foundations, hollow metal skylights, iron work, roof ventilators (heating and electric work reserved). Contract awarded to J. W. Draper, Camden, N. J.

School (add.), Brunswick and Southard streets, Trenton, $20,658. Architect, W. A. Poland, School Administration Building, Trenton, N. J. Owner, Trenton School Board, Trenton, N. J. Brick, 3 stories, 161x84 feet, concrete foundations, slate roof, tile and concrete floors, heating extension, electric light, tile work, hollow metal skylights, roof ventilators. Contract awarded to Thomas M. Day, 1109 Greenwood street, Trenton, N. J.

Delaware Construction News

Residences (100), Holy Oak, Del. Architect, Roscoe C. Tindall, 914 Orange street, Wilmington, Del. Owner, Givynhurs Developing Co., Holy Oak, Del. Too early for details.

Residences (75), Claymont, Del., $300,000. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Worth Bros. Steel Co., Claymont, Del. Too early for details.

Garage, 1205 French street, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, J. Lichtenbaum, 304 West Twenty-sixth street, Wilmington, Del. Brick, slow burning, 3 stories and basement, 33x75 feet, slag roof, steam heating, electric lighting, cement and maple floors, hollow metal sash, fire doors, elevators, roof ventilators, gasoline storage system. Plans in progress.

Garage, Second and Greenhill streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Wilmington Leather Co., on premises. Brick, 1 story, 31x52 feet, slag roof, cement floors, electric lighting, hollow metal sash, roof ventilators, steel rolling doors. Plans in progress.

Church, Claymont, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Father O'Connell, Clayton, Del. Brick, 1 story and basement, slate roof, pine floors, steam heating, electric light, rolled steel skylights, roof ventilators, 27x60 feet. Plans in progress.

Residence (alts.) to Apartment, 1110 Shallcross street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Mr. F. Gawthrop, on premises. General interior alterations, plumbing. Architect taking bids due as soon as possible. A. B. Johnson, Haddock Co., Smyth Const. Co. and J. E. Healy & Son, all of Wilmington, Del., are figuring.

Office Building, Second and Greenhill streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Wilmington Leather Co., on premises. Slow burning construction, 2 stories, 30x60 feet, concrete foundations, slate roof, maple floors, steam heat, electric light, tile work. Architect taking bids due as soon as possible. C. J. Dougherty, 2515 West Eighteenth street, Wilmington, Del., additional bidders.

Garages (20), 811 Harrison street, Wilmington, Del., $8,000. Architect, private plans. Owner, W. J. Thompson, 811 Harrison street, Wilmington, Del. Brick, 1 story, 10x20 feet, concrete foundations, slag roof, cement floors. Owner will build.

Houses (11), Newark, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, American Vulcanized Fabric Co., on premises. Stucco, 2 stories, 5 and 6 rooms, asbestos roof, pine floors, pipeless heat, electric light. Owners will build.

Delaware Contracts Awarded

Residence (alts.), Seventh and West streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Mrs. M. Doordan, on premises. General interior work, new plumbing, tile work. Contract awarded to C. J. Dougherty & Son, 2515 West Eighteenth street, Wilmington, Del.

Garage, Eighth and Harrison streets, Wilmington, Del., $1,050. Architect, private plans. Owner, C. W. Pyle, 405 Van Buren street, Wilmington, Del. Brick, 1 story, 18x20 feet, stone foundations, slag roof, cement floors. Contract awarded to O. W. Robinson, 607 Adams street, Wilmington, Del.

Residence (alts. and add.), Girard and Tatnall streets, Wilmington, Del. Architect, private plans. Owner, Frank Nobis, 804 Market street, Wilmington, Del. Brick, 1 story, 35x40-foot add., new front, general alterations. Contract awarded to D. M. Buckley, 1702 Union street, Wilmington, Del.

Store (alts.), Ninth and Market streets, Wilmington, Del., $20,000. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Schulte Cigar Co., Fifteenth and Chestnut streets, Philadelphia. Carpentry, mill work, plate glass, plastering, brick work, steam heating, electric lighting, tile work, pine floors. Contract awarded to Pierce Henon, Inc., Bulletin Building, Philadelphia.

Miscellaneous Construction News

Power House, Reynolda, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Mrs. K. J. Reynolds, Reynolda, N. C. Hollow tile and concrete, 2 stories, 100x42 feet, slag roof, cement floors, electric lighting. Architect taking bids due as soon as possible. A. B. MacGregor, 1629 Vine street; J. Sims Wilson Co., 1125 Brown street; John Gill & Son, Cleveland, O., care of Bowden Const. Co., 1713 Sansom street, Philadelphia, and D. G. Arenberg, Norfolk, Va., are figuring.

Building (alts.), 615 Washington street, Boston, Mass. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Waldorf System, Inc., Boston, Mass. General interior renovation, 5 stories, (1) elevator, electric work, tile and marble work, cabinet work. Plans and specifications completed. Owners are taking bids.

Hospital Buildings, Winston Salem, N. C., $1,000,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, City of Winston Salem, Winston Salem, N. C. Hollow tile and reinforced concrete, slag roof, cement floors, steam heating, electric lighting, tile and marble work, hollow tile, metal lath, elevators. Plans about completed. Architect will take bids in about ten days.

Church, Austin, Texas. Architect, Albert Kelsey, Perry Building, Philadelphia. Owner, University Baptist Church, care of Rev. Dr. Charles Maddry, Austin, Texas. Brick and stucco, details undecided. Plans in progress.

Proposals

PICATINNY ARSENAL, Dover, N. J.—Proposals for installing overhead steam mains, sewer pipe lines and sewage disposal plant, material furnished by the United States, will be received until 1 o'clock P. M., May 7th, 1920. Apply to Commanding Officer.

PICATINNY ARSENAL, Dover, N. J.—Proposals for erection of four concrete and hollow tile shop buildings, material furnished by the United States, will be received until 1 o'clock P. M., May 3rd, 1920. Apply to Commanding Officer.

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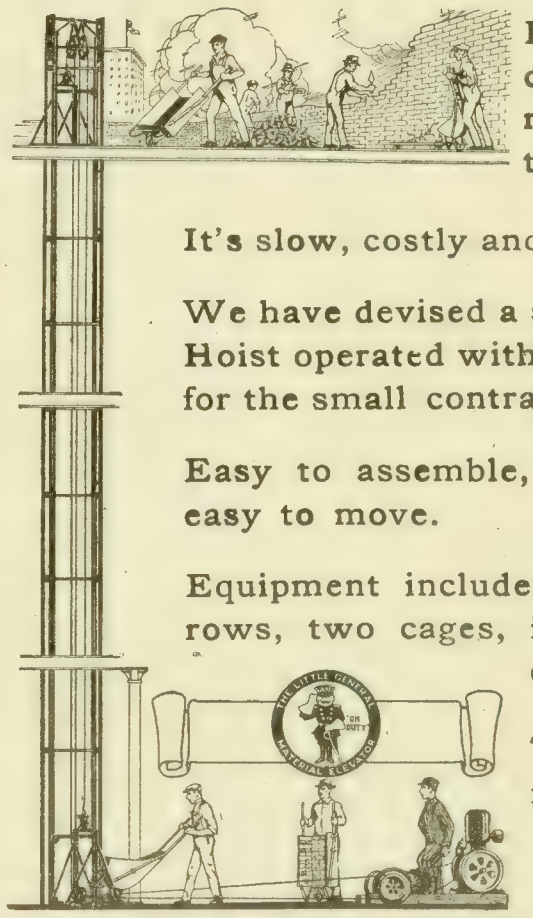
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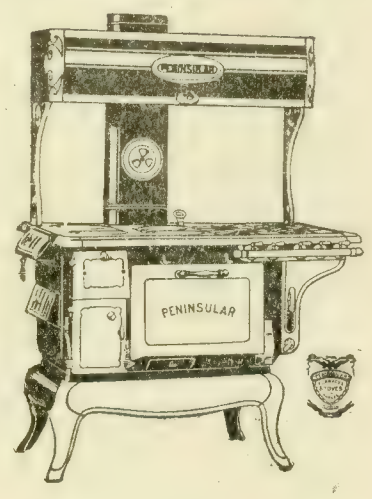
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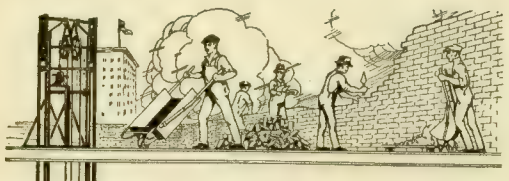
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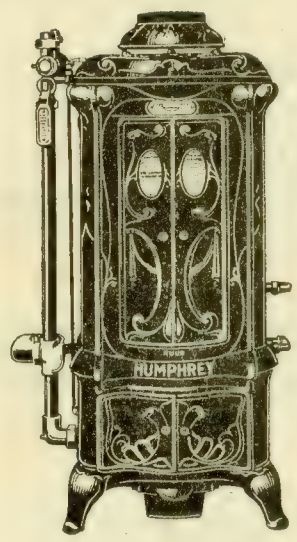
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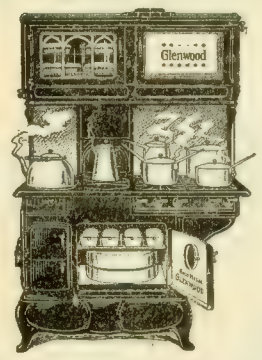
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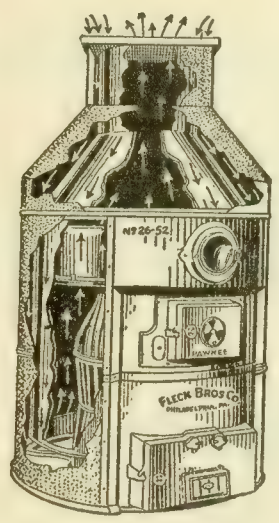


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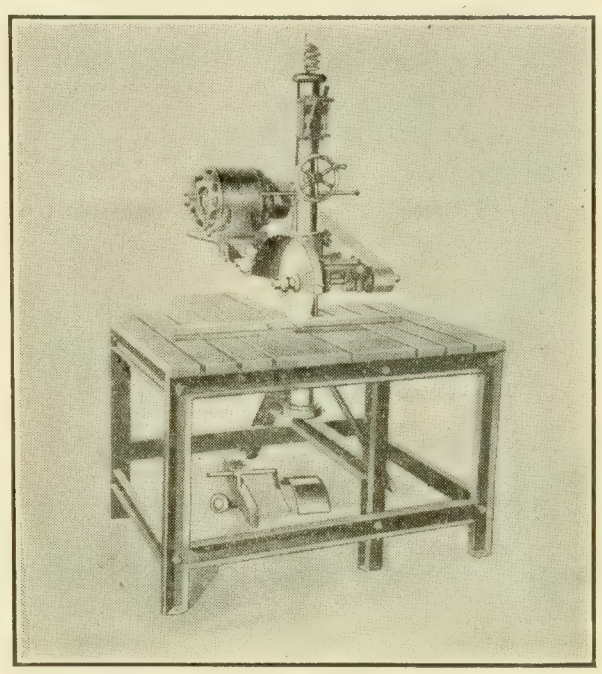
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 17

PHILADELPHIA
April 28, 1920

BUILDERS' GUIDE

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As The Editor Sees It

The GUIDE published on March 17 an article on the proposed Delaware River Bridge from Philadelphia to Camden with a plan map showing the Philadelphia approaches and transit connections.

On another page of this appears a plan map and article describing the details connected with the Camden end of the Bridge.

Our former article received so many favorable comments that we deem it appropriate to present the Camden features.

Architects, engineers, and business men commended on the efficiency, economy, and broad vision of local and interstate requirements included in our comprehensive plan.

* * *

BILLS TO RELIEVE CONTRACTORS

A measure has been introduced in the house by Representative Britten, of Illinois, to make it possible for the secretary of the navy to investigate and reimburse contractors who have suffered losses since April 6, 1917, in their dealings with the government. Bills looking to the relief of government contractors in the War Department have also been presented.

Only those contractors who can file affidavits to show that they did not make more than six per cent. net profit on the entire volume of business done for the government will be allowed to enter claims for reimbursement. The period of time included in this profit-making stipulation is from April 6, 1917, to June 30, 1919. Sub-contractors and material men are to be included in the term "contractors." The claims are to be filed within sixty days of the passage of the act, which is H. R. 13390.

The bill for the relief of contractors in War Department was presented to the senate by Senator Stanley and is S. 4156. It would empower the secretary of war to ascertain whether any of the contracts let for work on river and harbor improvements, but not completed prior to April 6, 1917, have become inequitable and unjust on account of increased cost of materials. The secretary is also authorized to report to congress a statement of the amounts he has found should be paid to such contractors if losses have been sustained because of the changes brought by the war, provided the statements do not contain anything save the actual losses of the holders of such contracts.

In the event that such contracts were cancelled because of the rise in prices on material and labor, the secretary would be authorized to relieve any such contractor or his bondsmen from further obligation or liability because of the nonperformance of such work or on account of the government being obliged to re-let the contract.

ACTIVITIES OF BUILDERS' EXCHANGE
Philadelphia, Pa.

The following letter covers the report of the Quarterly Corporation Meeting:

"The Quarterly Corporation Meeting of the Master Builders' Exchange, held at the Exchange on Tuesday evening, April 20th, was evidence of the fact that new life has come to the Exchange, and augurs well for future progress.

"The meeting was largely attended, and was followed by a rousing smoker and vaudeville show. Proof of the success of the affair is found in the fact that many applications for membership have resulted from individuals connected with the building industries, who desire to be with us, not only for the good times resulting, but also for the good that comes of cooperation and the powerful influence of the Master Builders' Exchange as a whole.

"Inasmuch as the membership of any organization determines its strength in the business world, it is evident that large membership means increased strength.

"That's your cue—GET YOUR MEMBER!

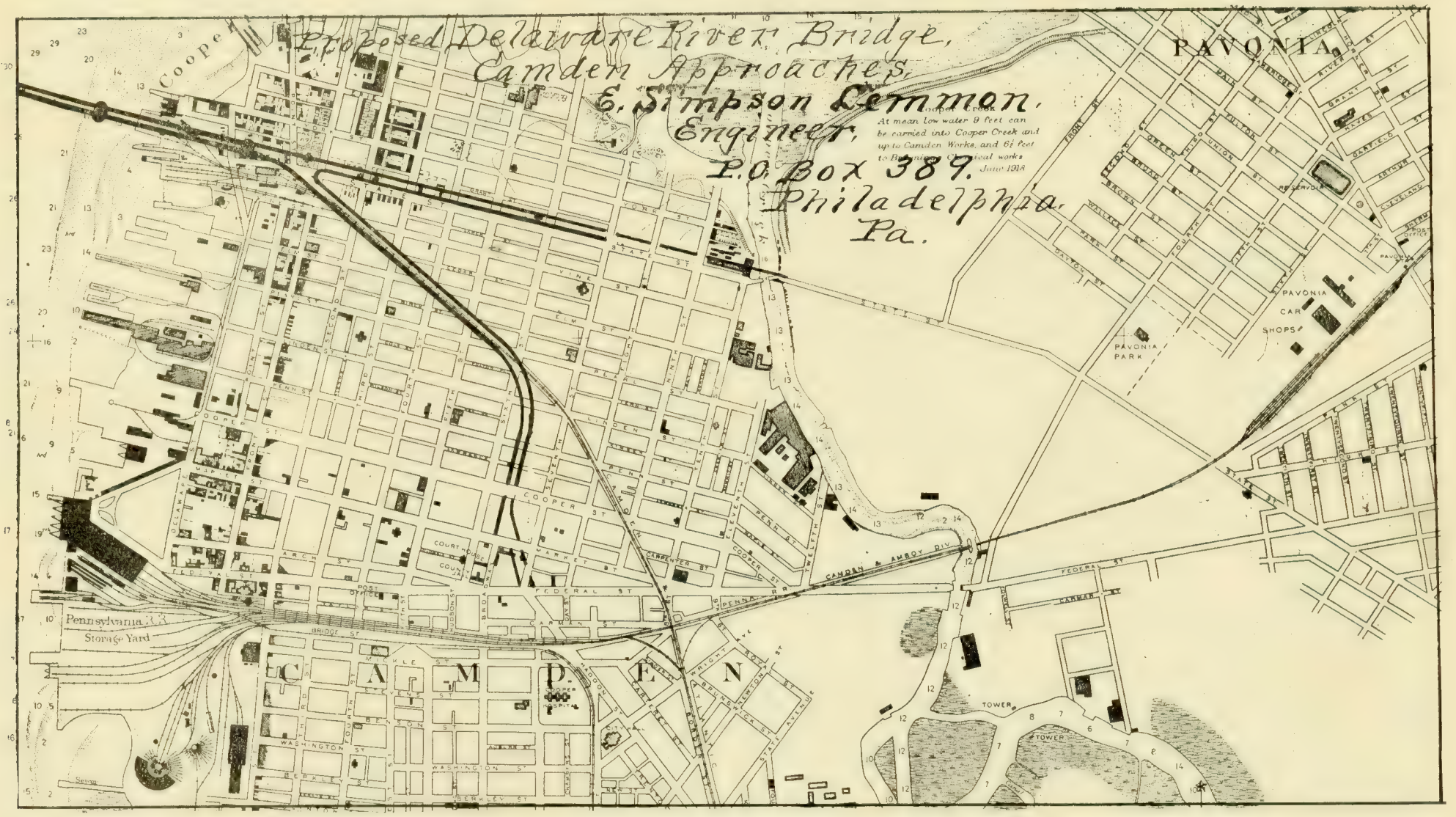
"E. E. HOLLENBACK, *"President."*

The speaker at the luncheon at the Bellevue-Stratford, Thursday, April 29, at 12.30, will be the United States District Attorney William D. McAvoy. Don't forget the date of the annual shad dinner, May 13th, at Mineral Springs Hotel.

DRAWING MATERIALS

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BLUE PRINTS



THE CAMDEN APPROACHES OF THE PROPOSED DELAWARE RIVER BRIDGE, PHILADELPHIA TO CAMDEN.

By E. Simpson Lemmon, Engineer.

As indicated in a previous article this proposed location of the Delaware River Bridge is intended to take care of all classes of traffic so that all unnecessary delays and inconveniences will be eliminated .

The straightaway interstate or through traffic passes outside the present congested centers. Purely local traffic conveniently and directly reaches its desired destination via the numerous radiating approaches.

On both sides of the river very little valuable property is disturbed or destroyed.

As will be seen by a study of the plan, the eastern end is on a line with State Street near the Bridge over Cooper's Creek, and this connects with main highways running to Burlington, Bordentown and North Jersey and to Merchantville, Moorestown, Mt. Holly and Sea Coast Territory.

The southern end reaches grade at Cooper Street and the roadway continues near Sixth Street to Market Street at Court House Plaza, traffic passing on east side of the Court House to Broadway, Gloucester, Woodbury and South Jersey, passing through next street east of Court House to Haddon Avenue for Haddonfield, White Horse Pike and Southeast Jersey Districts..

This Bridge location offers opportunity for railway traffic connecting with existing railways, providing for continuous railway transportation from the North, West and South through Philadelphia and Camden to New Jersey and the Seashore.

Very desirable features easily included in this bridge plan would be union railway stations of all railway lines located near Spring Garden Street in Philadelphia and near City Hall in Camden.

These locations and connections with other important details have been carefully worked out form a practiced standpoint on other plans not yet made public.

Suburban New Jersey trolley lines crossing the bridge should continue several squares beyond the Philadelphia ends of the Bridge and Philadelphia Trolley, Elevated and Subway lines should also continue some distance beyond the Camden end of the Bridge. In fact, have no denite Bridge terminals, but let the Bridge and its traffic blend with both cities without undue concentration at any one location.

Monumental entrances and elaborate plazas add nothing to the practical value of the project; hence, eliminate them. By giving the Commission control of improvements on property adjacent to the approaches, encouragement can be given monumental and ornamental buildings for business uses with entrances from the bridge levels as well as from the street levels and making them much more valuable.

The designing, the financing and the actual construction of such a project naturally divides itself into three distinct units of one great comprehensive plan.

The Bridge proper, including anchorage piers in Philadelphia and Camden and both river piers, constitutes the principal unit. For the same size and capacity its cost and method of construction remain the same for any location except for its length. As the location shown on this plan is at the narrowest part of the river its cost must necessarily be least because of the shorter length.

The next unit in importance is from the Philadelphia anchorage pier westward and this location has been consid-

ered favorably because of its numerous natural advantages—the small amount of improved property disturbed, the low values of such properties as are to be destroyed, and the further fact that this territory is ripe for active business development.

The portion from the Camden anchorage eastward forms the final unit and those familiar with this district will need no persuasion to realize its adaptability to this plan for many reasons, reasons too numerous to fully describe in this short article.

The cost of construction in accordance with this plan can be kept within a remarkably low gure by practical business methods and co-operation.

A plan of nancing that may be offered at a later time to the proper authorities indicates that the expenditures of public money on account of this plan should not exceed twenty-four million dollars.

We again emphasize the keynote of our article on March 17.

"Omit elaborate, ornate and useless designs and concentrate on utility and real service."

Make Camden-Philadelphia the center of intense practical activity.

—CO-OPERATE.—

* * *

THE GUIDE congratulates Mr. John P. B. Sinkler, of Bissel & Sinkler, on his appointment to the office of city architect for Philadelphia. The appointment of Mr. Sinkler is the first to that position, which is provided for in the New Philadelphia City Charter, but until the present time has remained vacant. The position pays a salary of $5,000.

In connection with the appointment of a city architect, the Mayor said the appointment of a Zoning Commission would shortly be announced.

"It has been difficult," Mayor Moore said, "to obtain the right kind of a man for this important place, because of the limitations set by the old Councils, but in Mr. Sinkler we have found a man of standing, backed by the Philadelphia Chapter of the American Institute of Architects, who is willing to make the sacrifice. The appointment of Mr. Sinkler will enable us to go forward with the Zoning Commission appointment, which will be announced in a few days, and to take up other work that is pressing. The range of work assigned to the city architect runs from police stations to monuments and bridges, and it is believed that Mr. Sinkler will bring to bear for the city the benefit of his studies and wide experience."

Mr. Sinkler is forty-fours years old. He was born in Philadelphia September 10, 1875, and is the son of Dr. Wharton Sinkler, and Ella Brock Sinkler. He received his early education in Philadelphia, attending the Protestant Episcopal Academy and the De Lancey School. In 1898 he was graduated from the School of Architecture of the University of of Pennsyl vania with the degree of bachelor of science in architecture, and afterwards traveled and studied in Europe for a year and a half.

Mr. Sinkler began the practice of architecture in 1902. In 1904 he formed a partnership with Elliston Perot Bissell, under the firm name of Bissell and Sinkler. The work of the firm includes the Confederate Memorial Institute, Richmond, Va.; Abington Memorial Hospital and Nurses' Home, Abington; front of Chestnut Street Opera House, Philadelphia; Whitman's store and Hanan's store, Philadelphia; government housing under Emergency Fleet Corporation: "Noreg Village" at Gloucester, N. J.; "Sun Hill," at Chester, and numerous residences.

Mr. Sinkler is a fellow of the American Institute of Architects, and was formerly president of the Philadelphia chapter of that organization.

The duty of the city architect, as prescribed by the charter, is to "prepare, draft and execute, or to supervise the preparation, drafting and execution of all specifications, drawings and plans of public buildings" to be erected in the city and to be paid for by appropriation of Council. Exception, however, is made in cases where because of the magnitude or character of the work to be done special architects are considered necessary by the city architect and the head of the department under the jurisdiction of which the projected work is to be done.

Special architects are to be appointed by the city architect with the approval of the Mayor. The charter also provides that the city architect may appoint such permanent employes as may be authorized by ordinance of Council.

Although the city architect will have supervision over all municipal buildings for which plans have not yet begun, all construction projects for which drawings exist or have been commenced will remain outside his jurisdiction.

These include the new building of the Free Library, for which Horace J. Trumbauer holds the architectural contract; the convention hall, plans of which have been prepared by John T. Windrim, and certain alterations and extensions at the Philadelphia Hospital for Contagious Diseases and the House of Correction, for which Philip H. Johnson has been engaged.

Joseph A. Roletter has been acting as city architect at a salary of $2100 a year.

CHESTER SHORT 700 DWELLINGS

Chester industrial workers made a public appeal to the people of the city possessing money to build 700 dwellings here immediately. The housing situation is acute and serious, with the result that a survey made today showed 700 families without homes.

* * *

An interesting and helpful booklet, "Barrett Everlastic Fiber-Coating," has been issued by the Barrett Manufacturing Company.

Barrett Everlastic Fiber-Coating is a cement in liquid form that *gives new life to old roofs.* It forms a tough, impervious coating over the entire roof, closing cracks and small holes that would otherwise admit moisture, thus making the roof practically one solid piece and, as far as utility goes, almost as good as new. It spreads readily and anyone can apply it.

Everlastic Fiber-Coating is a remarkable Barrett product, backed by the reputation of a company with sixty years' experience in the roofing field.

This booklet should be is the hands of every contractor, builder and roofer. Copies of the booklet will be gladly mailed to anyone applying to any of the Barrett offices.

* * *

GETTING DOWN CLAY.

Builders and contractors are finding that a little dynamite saves a lot of time and labor when it comes to getting down clay.

Charges are placed somewhat the same as in quarries. A row of vertical holes is put down to pit floor grade, a few feet back from the face. The amount of dynamite used depends on the height of the face, usually the holes are about two inches in diameter. The sticks of dynamite are dropped down them, so that resting end on end, the bore hole is filled to within one to three feet of the top, the hole is then tightly tamped to the surface.

It is advisable to use electric blasting caps and blasting machine to fire the charges, because the cumulative effect thus obtained produces better results than is possible when holes are fired one at a time with cap and fuse.

In a recent test in a clay pit one man working as described, was able to get down as much clay ready for loading on wagons as six men working with picks could do.

This was considered important in view of the present scarcity and high wages of labor.

CONDITION IN CONSTRUCTION INDUSTRY

By Ernest T. Trigg,

President of the National Federation of Construction Industries in his address as Presiding Officer of the National Conference on Concrete House Construction.

It has given me pleasure, as the president of the National Federation of Construction Industries, to accept the honor of the chairmanship of the National Conference on Concrete House Construction. The honor I do not consider as accorded to me personally, nor to the National Federation of Construction Industries, but to an idea fundamental at this time to the construction industry of America, which during the year just closed has grown from a thought discussed around a dinner table to a living organism, the potentiality of which has already been demonstrated. I refer to the comparatively new conception of the construction industry as a composite whole which has come into the minds of the construction interests, not only of the United States, but of Canada, Great Britain, France and other countries. For it is true that in all these countries at about the same time the construction interests have come to realize the necessity of co-ordinated action and a central organization, through which these interests may become articulate in their relationships to the government, consumers and laborer, and through which also additional effectiveness may be obtained within the industry by virtue of the co-operative action of its several divisions.

It is therefore gratifying to me that I, who chance at the moment to be the president of the federation which is the embodiment of this new thought of co-operative action on the part of many divisions of the constructive industry, should be accorded the honor of presiding at this meeting, because of the faith which is evidenced thereby in this new conception of American business.

The past year has been the most critical of any year in the memory of those present, not only in the construction industry, but in practically every line of business. The war came to a termination with startling abruptness. So far as the United States was concerned, we were barely getting into our stride as a warring nation. We had not reached the zenith of our ability in the production of war material, nor had we reached the utter demoralization of non-war business which would have surely been experienced had the war continued for a longer period. On the other hand, we had not reached a point where provisions were actively in process to lead the business of the country back into normal peace-time channels. Someone has described the condition of business immediately following the armistice as one of almost total paralysis.

Business in general experienced these conditions, but the construction industry was particularly beset with difficulty, not only because it was affected as were all lines of industry, but in addition because, since construction is essentially a peace-time activity, the wheels of the industry had largely stopped, personnel was disorganized and in many cases it was a matter of beginning in the rehabilitation of the industry at the very ground. We can never know how much of the injury worked upon the construction industry by government regulation was justified. The requirements of the government for material, fuel, transportation, finance and labor were perhaps reflected more drastically in the construction industry than in any other branch of business; but we had sons over there, where the crisis of the world was focused in a sharp, hot point of the most bitter contention man has ever experienced; we believed in American institutions; and we were not disposed to do anything which might even indirectly minimize the safety of our blood or of these institutions which we love. There were some instances where construction interests were able to transform their activities into those contributing to the prosecution of the war. There were others where the government actually required construction materials, but in general the construction industry, at the beginning of the year 1919, found itself in a condition of utter disorganization.

The story of its recovery is familiar to all of you. The path which it has followed during the past year has been full of pitfalls. The rapidity with which it has returned approximately to normal conditions is a monument not only to the genius of the leaders in our own industry, but to the American people as a whole, for we are interdependent in all of our business relations.

The year 1919 has been a year of intensive advertising. This advertising, to a large degree, has been of a new kind. We have not so much advertised our wares as ideas which it was necessary to inculcate in the minds of the people of this nation before business could again be set going. The advertising has accordingly been largely group advertising, or, to speak more exactly, educational propaganda organized and paid for by the business interests, which were bound to suffer if they could not put their arguments across in the popular mind. It is to the credit of American business that the educational propaganda which has been put out during the past year has been honest in its intention, logical in its argument and, as latterly demonstrated, sound in its promises. It is probable that the American nation has never seen so great an educational campaign along any line as that which was waged to convince the American people that the then existing price level would not be soon reduced.

There was a period early in the year when nearly everyone believed that prices would shortly decline. As we all know, a declining market is not a healthful environment for business. The belief in the imminence of price decline was so universal that an attempt was made to pass through an imaginary maximum period of decline at once, in order that business might resume upon an ascending market. For a time it was hoped that through the efforts of the Industrial Board of the United States Department of Commerce such an object could be achieved. The failure of the board to realize its purpose was undoubtedly a strong argument in favor of the permanency of higher price levels. An understanding of the psychology of the wage earner, of international financial conditions, of the advanced standards of living which had developed during the war and of the depleted condition of stocks of material eventually made it perfectly apparent that prices could not be expected to decline, but that in many instances they would probably advance. The educational campaign which resulted from the realization of these fundamental facts was undoubtedly primarily responsible for the quick resumption of business. The construction industry had an important part in the campaign, and supplemented it with other campaigns, such, for instance, as the "Own Your Own Home" movement in which all construction interests co-operated and which realized the most far-reaching results.

The National Conference on Concrete House Construction is an educational campaign in which all business interests vitally concerned therewith are co-operating. You are seeking to establish in the minds of the people of the United States an idea which you believe to be fundamentally sound and the realization of which you expect to benefit not so much yourselves but the public at large. The American nation is notorious in the volume of its fire losses. You are seeking to show a way by which the capital wealth of the United States may be conserved. It is an interesting commentary upon American business that insurance interests should co-operate with you in an endeavor to convert the people of this nation to a form of construction where fire hazard is diminished, and that those interests supplying fire protection equipment are also working to educate the American builder and property owner to forms of construction where the danger from loss by fire is decreased.

Construction is as old as civilization. It is older than the records of civilization or, to speak more exactly, the records of the most ancient of our forms of civilization are contained chiefly in the monuments of their constructive art. The massive stone structures of Egypt and the crumbling bricks of ancient Assyria are among the earliest evidences of the industry of man.

Portland cement, like the use of steam, is an acquisition of modern science. It is buried deep in the earth to form foundations of structures which in size fairly rival the pyramids of old. Of it highways are constructed havng the permanence of the stone roads of ancient Rome. It is fashioned in the form of bridges, which are as substantial as native rock and promise to be as enduring. In the decorative art, it is molded into graceful forms with all of the delicate tracery of the artist's hand. This wonderful plastic rock is one of the newest of construction materials. Its use today in common practice is perhaps still crude as compared with what it will be tomorrow. The applied science concerning it is too young for us to suppose that cement has reached its final structure or to imagine all of the uses to which it may be put.

It is peculiarly fitting that you as representatives of one of the newest and most important of construction materials should adopt the advanced methods here evidenced in your business practice. You are assembled, I take it, for a number of reasons. You desire to wage an educational campaign. You wish to sell the people of America an idea. At the same time you are not willing to rest upon the laurels which you have so fairly won, but are determined if possible to advance your art to even higher stages and to instruct your workmen in the methods by which most creditable results may be obtained. You have common interests. You are willing to work in unity. You are here to exchange the knowledge and experience any ideas which have come to you since you last met together. You desire, if possible, to seek out new means of research which shall advantage not only you but your public. This is an excellent illustration of the motive which should prompt all of us in the construction industry, for whether we are interested in cement or brick or steel or preservative materials or lumber or lime or building hardware, or anyone of a hundred other things entering into construction today, we are all members of one great industry, the greatest industry in the United States, and hence in the world, the industry which is supreme in the production of those things which remain permanent in the possession of the people—of the capital wealth of the nation. It is this thought which has led the federation to adopt the pyramid as a symbol of permanence and stability.

I say we are members of the greatest industry in the world. In normal times the construction industry of the United States produces three billion dollars of added permanent taxable wealth annually. It supplies more than one-quarter of the railroad tonnage of the country. It employs more men than any other industry. Its activities are extended into the smallest communities; its influence is felt in many lines of business not directly connected with it.

We have issued from the travail of a great war, which has abruptly swept aside some of our oldest traditions. Business is advancing along new lines. International relationships have taken on new aspects. The methods by which we must carry on our business in the future are aptly illustrated by the spirit which prompts this conference. This spirit is one of working together for the common good of those in your industry and of your patrons.

The present is a day of violent anomalies. Leaving aside the question of the purchasing power of a dollar—which in the final analysis is purely relative—we find that there is universally a demand for better living conditions, accompanied by an equally insistent demand for more hours of leisure. If at any time in the history of a people the standard of living is suddenly elevated to a new plane, the effect economically is the same as if there had been a sudden addition to the population of millions of non-producing consumers. The corollary of a higher standard of living, which is most laudable in itself, is undeniably increased production. We cannot consume that which is not produced. If we would have more of this world's goods, as a nation of over one hundred million souls, we must produce more goods. It is not a question of our individual purchasing power. We cannot buy that which does not exist. It is emphatically a question of our collective producing ability; and it is a fact, according to those who should be in a position to know, that while the per capita demand for commodities is increasing in a way never before experienced, the per capita production of commodities is decreasing. If by the magic of some Aladdin's lamp we were to be able suddenly to place in the hands of every person in the United States a million dollars in gold, the condition whereof I speak would not be altered in the slightest degree.

If the new price level is approximately permanent, our business, other things being equal, can continue unhampered. The significance of the new price level, excepting considerations of international exchange, involves only the larger circulation of currency; but the relationship of production to consumption, if the latter is larger than the former, must inevitably result in ruin through the opportunity thereby created for the further exploitation in price of the commodities which are available. So long as consumption exceeds production the opportunity for profiteering not only exists but is strongly tempting.

The National Federation of Construction Industries, realizing this condition, has warned the component elements of the industry from time to time as to the danger to the public welfare which is inherent in further increases in price; and I am happy to say that notwithstanding the fact that in many instances demand has exceeded supply, the percentage advance in the cost of construction materials has been kept well below the average of the advance in price of all commodities.

The questions of thrift and of production are of transcendent importance to the public welfare at this time. They have called for an educational propaganda which is still in process, and which in some particulars is more difficult than that which related to the permanency of the new price level. Until a proper psychological balance shall have been restored in the minds of our people as to these two economic factors of production and consumption, our nation is in danger. Until this balance shall have been restored, we shall remain in what some have chosen to call the reconstruction period, during which periods our only hope lies in concerted action, not for our individual good but for our collective welfare.

There are other strong considerations which demand our attention. We are

approaching a time when by constitutional provision we shall determine upon the political leadership of our government for the next ensuing period of four years. It is a period which will be marked by decisions and determinations of policy of the most far-reaching importance. The government has played a more intimate part in the business affairs of the nation during the past few years than ever before in our memory, and it is apparent that to some degree at least this intimate relationship will continue for some time to come. Business is not, as some of the uninformed would tell us, an affair of capital. The conditions of business affect the whole people and upon its proper guidance depends the welfare of all of us. It also involves, to a greater degree than ever before, questions of foreign relationships. The unprecedented condition of world finance and exchange requires in its handling the highest ability. The leadership of our country and the formulation of policies during the immediate future should not be left to professional politicians or theorists. Our final emergence from a broad plane of substantial economic security as a nation is conditioned upon the same quality of administrative guidance which characterizes any well organized and operated business. The situation which confronts us calls most emphatically for a business man of the highest order as the next president of the United States, who will surround himself with cabinet officers of recognized administrative genius.

The present is not a time for political spoils or partisanship or petty jealousies. Our need for concerted action to accomplish the restoration of the country to its former strength and stability was never exceeded by the requirements for unity of endeavor during the war. Notwithstanding this fact, strong partisanship is evidenced at the present moment. Many of our political leaders of both parties, apparently heedless of the seriousness of present conditions, are engrossed with the search for party issues which will insure factional success, while organized labor seeks to discover a method by which the government may be deprived of the elective service of American citizens who do not bear the symbol of class rule—the union label.

These are considerations which make it not only desirable but necessary that as business men we shall give more attention to matters not immediately concerned with our business. The spirit which prompts the National Conference on Concrete House Construction is one of unity. It is a spirit which should actuate us even in larger groups of interests than are here represented. The combined construction industry, when it is completely organized, will become one of the most powerful forces of the business world.

I am reminded of a quotation which I saw a few days ago: "He who builds for himself alone is a complete failure, even though his towers touch the sky and death breaks his grasp on a billion." Your assembling here is a testimony of your belief in the ideal of co-operation. For this reason, it affords me a peculiar pleasure as chairman of your conference to welcome you here and to extend to you my most sincere hope that you may accomplish to the fullest degree those things of which you are so eminently worthy.

* * *

EFFECT OF SEA WATER ON CONCRETE STRUCTURES

The Society of German Portland Cement Manufacturers, in collaboration with the Material Testing Bureau at Lichterfelde and the Hydraulic Works Inspection Department at Husum, on the island of Sylt, have been experimenting for about 20 years in order to discover the most suitable mixture for concrete for sea-water structures. In this connection Dr. Gary has recently published a detailed report in a communication of the Material Testing Bureau, the conclusions of which are given as follows in Mitteilungen des Reichsbundes Deutscher Technik.

In order to obtain suitably strong structures in sea water, it is necessary to use cement which is as rich as possible in silicates, but poor in kaolin and iron oxide. Such cements, when at the same time they are rich in lime, can be considerably increased in value by adding certain quantities of trass. The decisive factor, however, for the permanence of concrete structures in the sea is the use of mixtures which are as dense as possible and impervious to sea water, while at the same time sufficient external hardening should be given to the substances before they are placed in the sea by exposing them to heat and to moist air. Concrete, the mortar of which contains more than 66 2-3 per cent. of sand, will generally not show the necessary density to enable it to stand attacks by sea water for any length of time.—Engineering and Contracting.

* * *

ARCHITECT TALKS ON ADVERTISING AND FEES.

An interesting meeting of the Idaho Architectural Association was held recently at which was discussed some of the more perplexing problems confronting the architect today. There were twenty-five architects in attendance and the meeting was presided over by Mr. Burton E. Morse of Twin Falls, state chairman of the national post-war committee on architectural practice.

Prominent among the speakers at the convention was Mr. Charles H. Whitaker, a member of the post-war committee, who explained the purposes of the post-war committee. He outlined the guilds of the old days, wherein the workman was apprenticed for so many years before he was permitted to work for himself and said if architects would take more care of their apprentices today and the apprentice could be made to realize the amount of valuable information he was acquiring, it would be better for the profession, as these apprentices will be the architects of tomorrow.

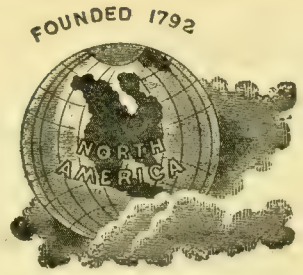
In his exhaustive address Mr. Fred F. Wilson of Bozeman, Mont., touched particularly upon two important phases of the architect's work—advertising and fees. He mentionel the fact that in so many public write-ups of buildings everyone else was mentioned except the architect, which was far from fair, and he outlined ways in which the architect should advertise, particularly in his education of the public. In this connection he cited the instance of a school board in one of the Montana counties which sent specifications to fourteen architects for a building to cost $27,000, which included accessories which could not be included under $37,000. Mr. Wilson said he so stated to the board as did others, but an inside man made a bid of $27,000 and was given the contract and later the board was obliged to pay $43,000 for the building. This was a case where the public should have been educated to knowing what things actually cost and to having faith in home architects.

Another thing which works a great hardship on architects is getting a uniform commission on the cost of the building, whether it be large or small, and nothing for preliminary sketches. He cited the instance of plans for a $15,000 house on which he made so many sketches to suit the wife of the family that it took $600 worth of his time before the building was commenced. With a 6 per cent. commission it was easy to see how much ahead he was, he said.

Mr. Paul Davis of the department of law enforcement outlined the state's registration laws and showed the Idaho laws relating to the licensing of architects was almost a model law, that the result of this law will be to protect the public and raise the standard of the profession.

Mr. Davis suggested that a bill be introduced into the next legislature, defining just who can and who cannot practice architecture in Idaho. As an illustration of the need of this he mentioned the fact that certain lumber companies had plans drawn for houses with a careful estimate of the lumber needed and the company threw in the plans if the lumber was purchased. The new definition would determine whether these plans could be used or not.—*Architect and Builder.*

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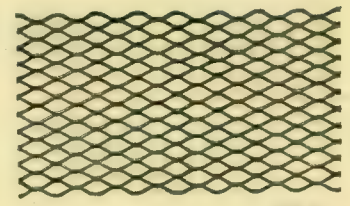
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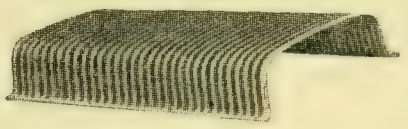
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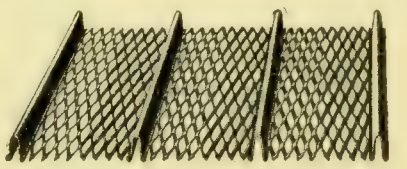
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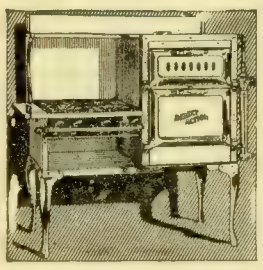
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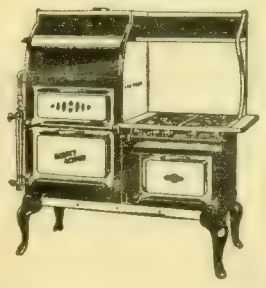
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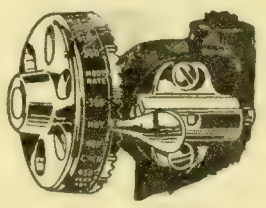
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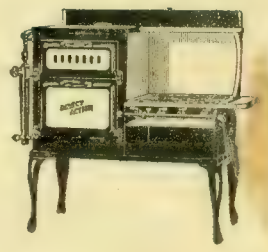
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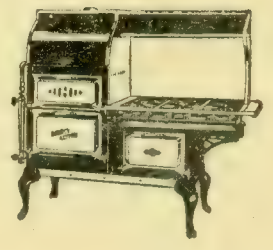
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A. B. See Electric Elevator Co., Colonial Trust Bldg., Phila.

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Robbins, Chas. H. .....1209 Arch St., Phila.
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Truscon Steel Co. .....Commonwealth Bldg., Phila.

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Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

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Clausen, Wm. H.....27th and Diamond Sts., Phila.

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Borden Stove Co. .....1311-13 Arch St., Phila.
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Ketcham, O. W. .....Builders' Exchange, Phila.

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Beidler & Bookmeyer.....424 Walnut St., Phila.
Stokes, Packard, Haughton & Smith, 434 Walnut St., Phila.
Wagner, Taylor, Edson Co., Inc.422 Walnut St., Phil.
Insurance Co. of North America, 3rd and Walnut Sts., Phila.

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Lederle, Robt. B. .....Witherspoon Bldg., Phila.
McCalla Co., The Harold.....531 N. 4th St., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

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West Phila, Art Glass Works..4218 Market St., Phila.

LEVELS.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

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Pettit, Frank, Ornamental Iron Works, 809 Master St., Phila.

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Irwin, James M., & Co.....973 Beach St., Phila.
Janney Lumber Co.....1147 Beach St., Phila.
Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

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MARBLE MOSAIC.
Belfi Bros. & Co.....1923 Market St., Phila.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

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General Fireproofing Co....512 Bulletin Bldg., Phila.
McCalla Co., The Harold.....531 N. 4th St., Phila.
Pearce Fireproof Co.....1345 Arch St., Phila.
Truscon Steel Co.....Commonwealth Bldg., Phila.

METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

MILL SUPPLIES.
Bond, Chas., Co.....617 Arch St., Phila.
Fairbanks Co., The.....7th and Arch Sts., Phila.

MORTAR COLORS.
French, Samuel H., & Co....4th and Callowhill Sts.

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Lederle, Robt. B.....Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
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Truscon Steel Co. .....Commonwealth Bldg., Phila.
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Kensington Metal Co.....1612 N. 2nd St., Phila.

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Malia, Thos. J. .....141 Wentz St., Phila.

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Builders' Guide

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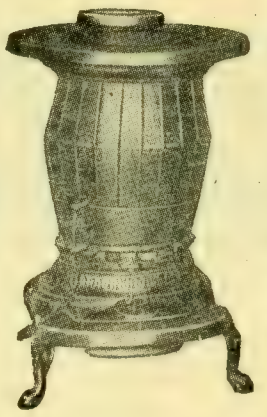
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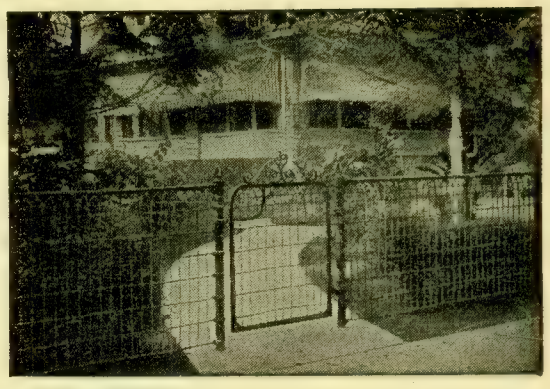
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church, Fifty-sixth and Willows avenue, Philadelphia. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Sherwood United Presbyterian Church, care of architect. Stone and steel, 1½ stories, 65x75 feet, slate roof, pine floors, metal lath, iron work, steam heating, electric lighting. Plans in progress.

Contracts Nos. 556, 558, 559, Stations, Huntingdon and Tioga streets, Frankford Elevated, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Brick, steel and concrete. Owners taking bids due May 11th. Standard Const. Co., 1713 Sansom street; Thomas Reilly, 1616 Thompson street, and Frank G. Stewart, 1619 Sansom street, are figuring.

Contract No. 505, Column Foundations, Front street near Arch street. **Contract No. 508, Steel Superstructure,** Front street near Arch street. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Owners taking bids due May 11th.

Elevated Stations, Contracts Nos. 557, 576, Torresdale avenue and Pratt street, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Owners taking bids due May 18th.

Station Platforms, Contract No. 571, Huntingdon and Tioga streets, and Torresdale avenue, Frankford Elevated, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Owners taking bids due May 18th.

Contracts Nos. 578, 579, Plumbing and Electric Work on Huntingdon, Tioga streets, Torresdale avenue and Pratt street stations. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Owners taking bids due May 25th.

Shock Building (add.), Twenty-fifth and Hunting Park avenue, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Edw. G. Budd Mfg. Co., on premises. Reinforced concrete, brick and steel, 4 stories, 73x200 feet, stone foundations, asbestos roof, rolled steel sash and skylights. Architects have received bids.

Storage House (add.), Northwest Corner Fifth and Kater streets, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, P. Miller, on premises. Brick, 2 stories, 20x55 feet, slag roof, pine floors, structural steel, concrete work, electric lighting. Owner will be ready for sub-bids in a few days.

Store and Dwelling (alts.), 1905 South Seventh street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, H. Baranofsky, 736 South Fourth street, Philadelphia. Brick, 3 stories, 17x70 feet, slag roof, hardwood and parquetry floors, hot water heat, electric light, tile and marble work, plate glass, hollow metal skylights, metal ceilings, flush bulks. Owner is taking bids. Charles Schnitzer, 1625 South Franklin street, is figuring.

Synagogue, Broad and Courtland streets, Philadelphia. Architects, J. E. Fieldstein, Penfield Building, Philadelphia. Owner, Beth Shalom Congregation, care of architect. Brick and terra cotta, 1 story, 100x75 feet, stone foundations ,slag roof, steam heating, electric lighting. Architect taking bids due April 30th. Lam Building Co., 1001 Wood street; Kober Const. Co., Middle City Building, and Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia, are figuring.

Hotel (alts. and add.), 1337-39 Arch street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, Strand Hotel Co., on premises. Carpentry, mill work, plastering, steel work, roof repairs, oak and composition floors, steam heat, electric lighting, tile and marble work, iron work, metal lath. Architects have received bids.

Residence (alts.), 1822 Delancey Place, Philadelphia. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Newell C. Bradley, on premises. General alterations. Architects taking bids due April 30th. H. H. Burrell, 206 South Quince street, is figuring.

Store and Dwelling (alts.), Southwest Corner Fifteenth and Cambria streets, $20,000. Architect, private plans. Owner, Leon Braker, 5820 Spruce street, Philadelphia. Brick, 1 story, 5x14 feet, slag roof, electric lighting, general alterations. Owner will build.

Store and Dwelling (alts. and add.), Southeast Corner Columbia avenue and Sydenham street, Philadelphia, $20,000. Architect, private plans. Owner, Leon Braker, 5820 Spruce street, Philadelphia. General alterations and additions. Owner will build.

Bridge, over P. and R. R. R., Norristown Division, Broad and Lehigh avenue. Architect, private plans. Owners, City of Philadelphia, Bureau of Highway, City Hall, Philadelphia. Concrete and steel. Lowest bidder, Mundy Cont. Co., 228 South Alder street, $62,000.

Engine Room (alts.), Allegheny avenue, East of Richmond street, $3,500. Architect, private plans. Owner, Baeder Adamson & Co., on premises. General repairs. Owner will build.

Dwellings (11), Mascher street, south of Clarkson avenue, $44,500. Architect, private plans. Owner, Carl A. Mayer, 221 West Olney avenue, Philadelphia. Brick, 2 stories, 16x30 feet, 13x10 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Owner will build.

Residences and Garages (20), Fairhill street, between Sixty-fourth and Sixty-fifth avenues, Philadelphia, $290,000. Architect, private plans. Owners ,J. J. Kelly Const. Co., 6718 Old York road, Philadelphia. Brick, 3 stories, 19x33 feet, 12x4 feet, slate and slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owners will build.

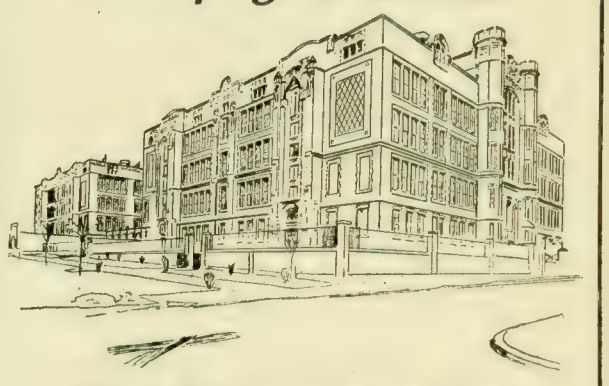
Dwellings (11), 5022-42 North Camac street, Philadelphia, $71,500. Architect, private plans. Owner, George Schwinn, Southwest Corner Camac and Lindley avenue, Philadelphia. Brick, 2 stories, 16x32 feet, 11x17 feet, slag roof, hot water heat, electric lighting, tile work, hardwood floors. Owner will build.

Residences (72), 817-847, 808-846, 900-932 and 901-937 North Sixty-fifth street, West Philadelphia, $720,000. Architect, private plans. Owners, Moss & Taylor, Fifty-eighth and Girard avenue, Philadelphia. Brick, 2 stories, 20x35 feet, slag roof, steam heating, electric lighting, tile work, hardwood floors, cement work. Owners will build.

Residence (alts. and add.), Chestnut Hill, Philadelphia. Architects, Willing & Sims, 1627 Sansom street, Philadelphia. Owner, Hamilton Disston, 315 Rex street, Chestnut Hill ,Philadelphia. Brick and cement work, carpentry, mill work, plastering. Architects have received bids.

Building (alts.) to Cold Storage Building, 208 North Delaware avenue, $7,000. Architect, private plans. Owners, Sinclair Sales Corp., 208 North Delaware avenue, Philadelphia. Mill work, carpentry, cork insulation, plastering. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

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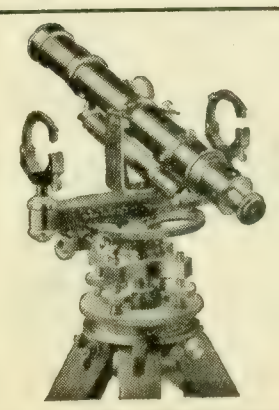
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Garages (9), 153-169 Northeast Boulevard, Philadelphia, $9,000. Architect, private plans. Owner, Robert D. Hamilton, Broad and Somerville streets, Philadelphia. Brick, 1 story, 17½x18½ feet, slag roof, cement floors. Owner will build.

Store and Dwelling (alts. and add.), 1708-10-12-14 Bainbridge street, $3,300. Architect, private plans. Owners, The Children's Hospital, Eighteenth and Fitzwater streets, Philadelphia. Brick, third story add., 17x8½ feet, slag roof. Owners will build.

Bridges (2), over Cobb's Creek, Cobb's Creek Parkway, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Director John C. Winston, 216 City Hall, Philadelphia. Concrete arches, rubble facing, 66 feet wide. Owners taking bids due April 29th. Snare & Triest, Pennsylvania Building; W. P. Mahoney, E. H. Vare, 1120 Race street; James Kelly, Bulletin Building; Fish-Rutherford, Inc., 622 Spruce street; General Cont. & Eng. Co., 727 East Chelten avenue, Philadelphia, and G. B. Morgan, Horseheads, N. Y., are figuring.

Bridge, Harvey street, under P., G. and N. R. R., Philadelphia. Rock excavation, reinforced concrete work. Owners taking bids April 29th. Snare & Triest, Pennsylvania Building; W. P. Mahoney, General Cont. & Eng. Co., 727 East Chelten avenue; James Kelly, Bulletin Building; Fish-Rutherford, Inc., 622 Spruce street, and G. B. Morgan, Horseheads, N. Y., are figuring.

Bridge, Forty-ninth street, over P., B. and W. R. R., Fortieth Ward, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Director John C. Winston, 216 City Hall, Philadelphia. Structural steel and concrete. Owners taking bids due April 29th. William Mundy, 228 South Alder street; Bethlehem Steel Co., Bethlehem, Pa.; G. B. Morgan, Horseheads, N. Y.; Edwin H. Vare, 1120 Race street; General Cont. & Engr. Co., 727 East Chelten avenue, are figuring.

Stations, 4431 Main street, Manayunk, Montgomery avenue and Flora street, and 1328 Race street, Philadelphia. Architect, Joseph A. Roletter, City Hall, Philadelphia. Owner, City of Philadelphia, Department of Public Safety, City Hall, Philadelphia. Slag roof, roof ventilators, copper screens, new cement floors, brick wall, mill work, iron screens, painting and glazing. Owners taking bids due May 5th. Hogg Const. Co., Denckla Building, figuring.

Residence, 7220 Lincoln Drive, Philadelphia, $10,000. Architect, private plans. Owners, Carson Bros., Lincoln Drive and Allen Lane, Philadelphia. Stone, 3 stories, 23½x34 feet, 11x10 feet, slate roof, hot water heat, electric lighting, tile work, hardwood floors. Owners will build.

Residences (23), 3210-3254 North Twenty-seventh street, Philadelphia, $92,500. Architect, private plans. Owner, George W. Zane, Twenty-seventh and Allegheny avenue, Philadelphia. Brick, 2 stories, 16x29 feet, 13x11 feet, slag roof, hot water heat, electric lighting, pine floors. Owner will build.

Residences and Garages (10), 7200-7218 Lincoln Drive, $128,000. Architect, private plans. Owners, Carson Bros., Allen Lane and Lincoln Drive, Philadelphia. Stone, 3 stories, 26½x31½ feet, slate roof, hot water heating, electric lighting; Garage, 1 story, 13x23 feet, cement work. Owners will build.

Basement of Church, Sixty-first and Oxford streets, Philadelphia. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owners, Third Christian Church, care of Rev. T. E. Winter, Lancaster avenue and Aspen street, Philadelphia. Stone and brick, 1 story, 110x69 feet, slag roof, pine and cement floors, stone foundations, electric lighting, fire doors, iron stairs, ornamental iron work, dampproofing. Architects taking bids, due May 7th. Thos. C. Trafford, 1613 Sansom street; Graham & Wells, 3649 Filbert street; Tourison & Tourison, 1001 Chestnut street, Philadelphia, and Wilbert Beaumont, Atlantic City, N. J., are figuring.

Office Building, Seventeenth, Cherry street and Parkway, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Sun Oil Co., Chester, Pa. Brick, steel and stone and concrete, 12 stories, 60x90 feet, slag roof, concrete floors, metal lath, elevators, steam heat, electric lighting. Architect is ready for bids.

Garage and Warehouse, Parkside avenue, between Forty-ninth and Fiftieth streets, Philadelphia. Architect, Charles Hickman, Bellevue Court Building, Philadelphia. Owners, Cunningham Piano Co., 1101 Chestnut street, Philadelphia. Concrete, brick and steel, 4 stories, 99x18 feet, slag roof, stone foundations, steam heat, electric lighting, iron work, maple and concrete floors. Architect taking bids, due May 1st. H. E. Baton, 1713 Sansom street; Charles McCaul Co., 1713 Sansom street; A. R. Raff Cont. Co., 1635 Thompson street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Robert E. Lamb Co., 843 North Nineteenth street; Doyle & Co., 1519 Sansom street; Standard Const. Co., 1713 Sansom street; Barclay White & Co., 1713 Sansom street, and Wark & Co., 1737 Filbert street, Philadelphia, are figuring.

Auto Service Station, 1310-12-14 Poplar street, Philadelphia, $25,000. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, A. Hartman, Widener Building and Strafford, Pa. Brick, 2 stories, 54x32 feet and 141 feet, slag roof, steam heating, electric lighting, fire doors, rolled steel skylights. Owner will build.

Manufacturing Building (alts. and add.), Tenth and Ontario streets. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Surpass Leather Co., Ninth and Westmoreland streets, Philadelphia. General alterations and addition. Plans in progress.

Nurses' Home (alts.), Sixth and Spruce streets, Philadelphia. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Jewish Maternity Hospital, on premises. Architect taking bids. D. Henwood, 717 South Sixty-second street, and S. Yellin, 3125 Montgomery avenue, are figuring.

Sunday School (add.) and Church, Fifty-first and Pine streets, Philadelphia, $125,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Oak Park United Presbyterian congregation, Rev. Thos. C. Pollock, 5034 Hazel avenue, Judson C. Burns, chairman of Building Committee, 1108 Walnut street, Philadelphia. Brick and stone, 2 stories and basement, 80x80 feet, slate roof, pine floors, steam heat, electric lighting, tile work. Plans in progress.

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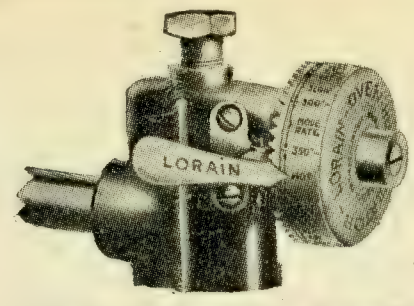
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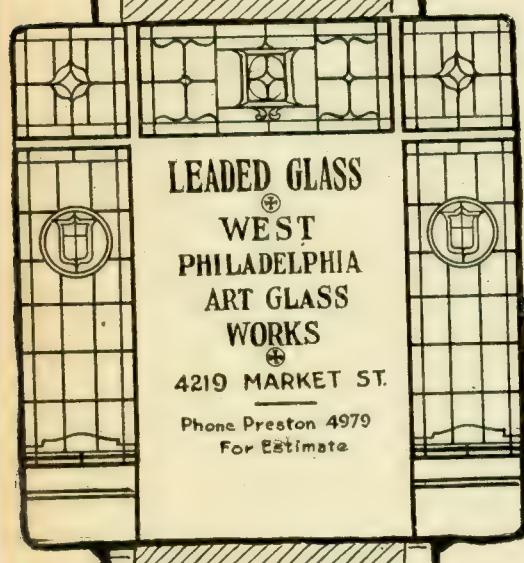
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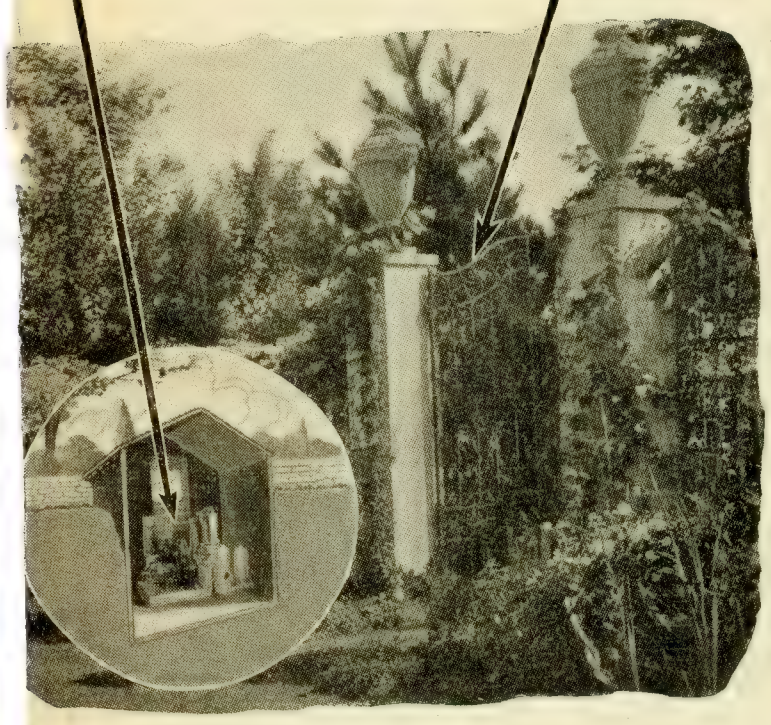
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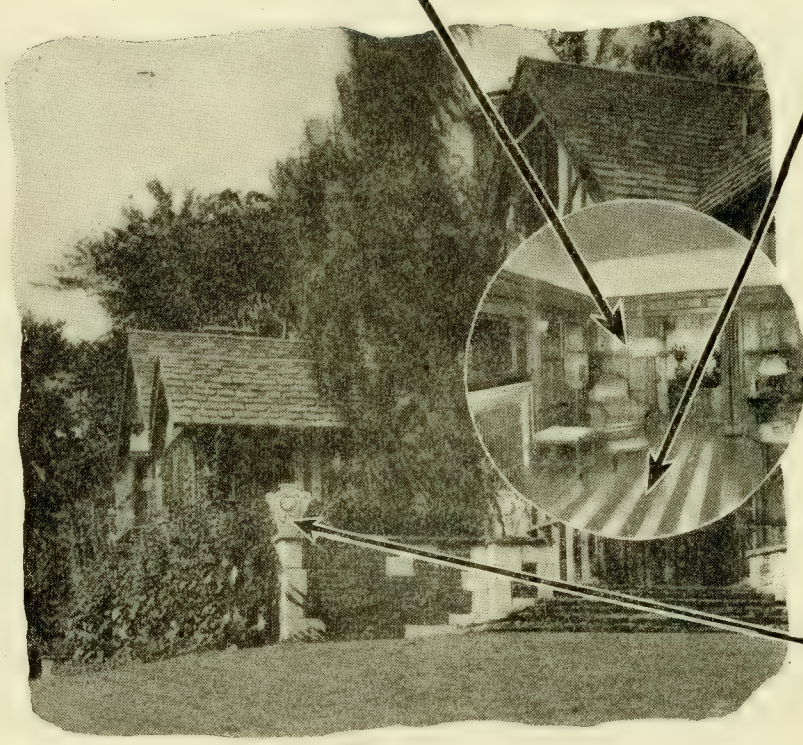
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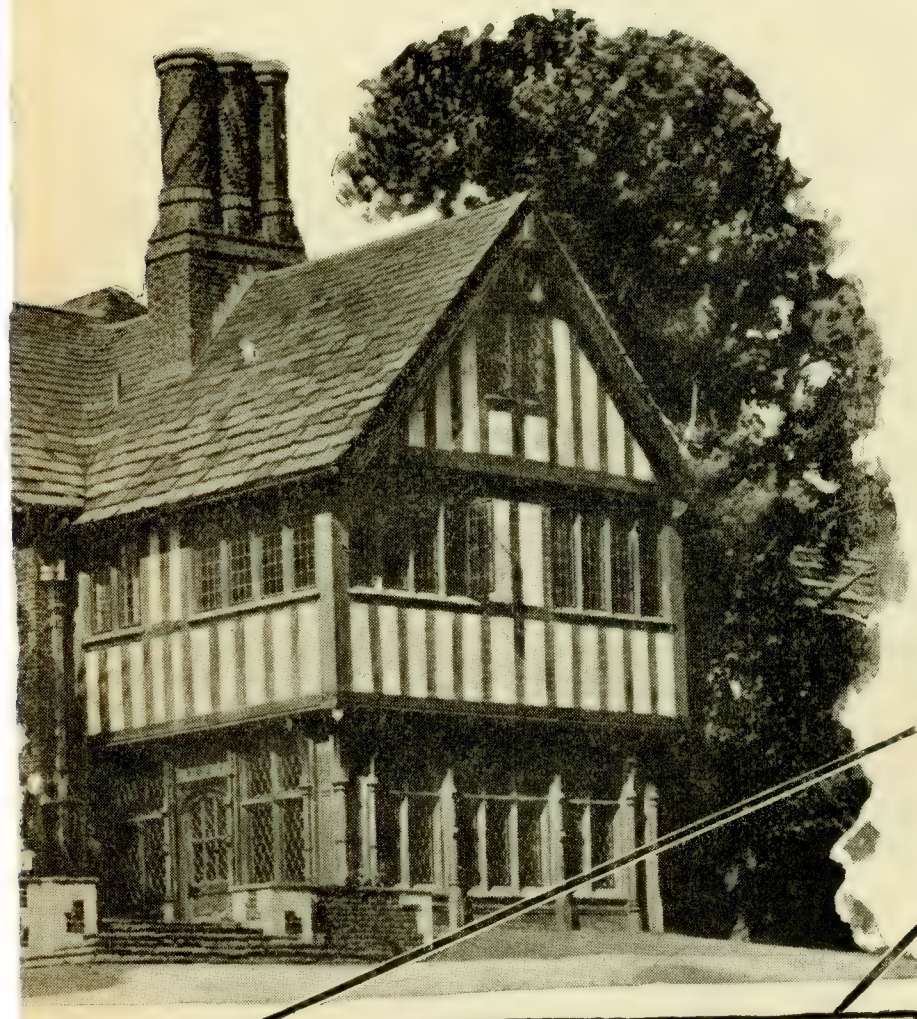
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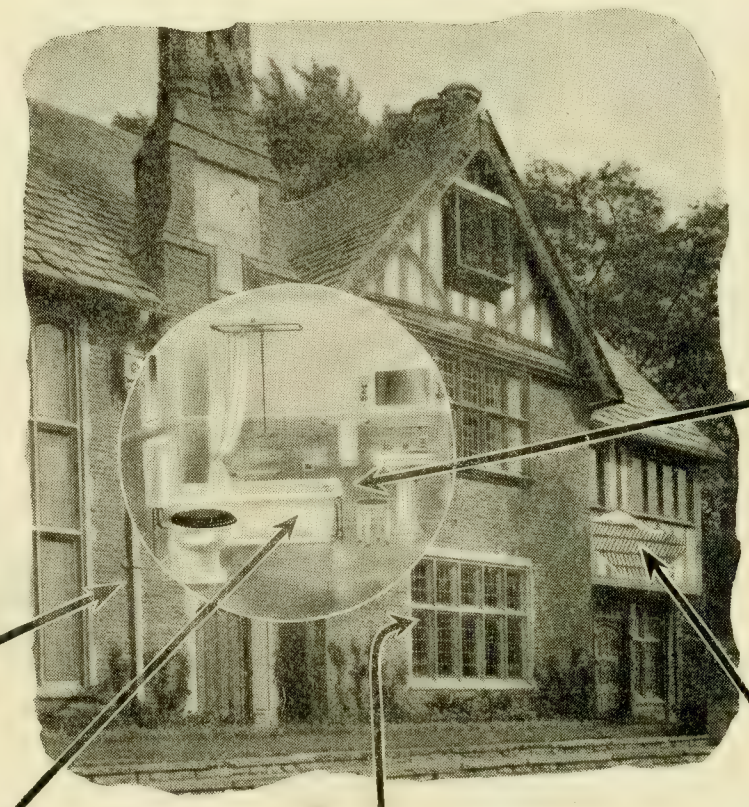
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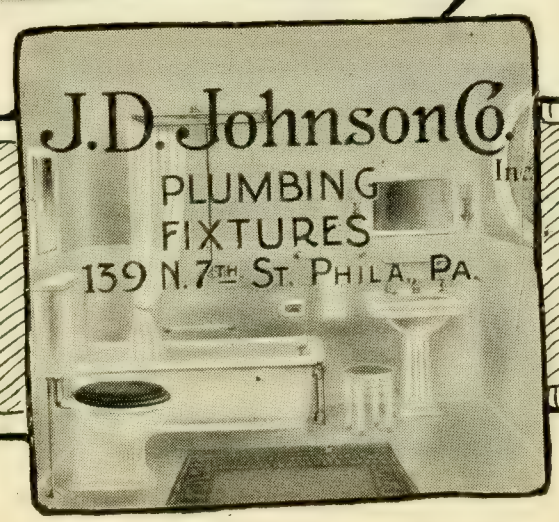
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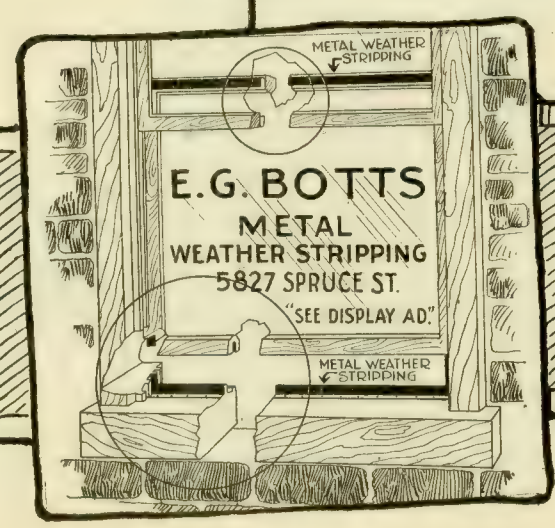
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory and Garage, Laurence and Pike, and 454 Rising Sun avenue, $50,000. Architect, private plans. Owner, John Frederich, on premises. Brick, 3 stories, 60x24 feet, and 1 story, 130x40 feet, slag roof, steam heating, cement and fireproof floors, electric lighting, iron and steel work, rolled steel sash and skylights, fire doors, iron stairs, elevators. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Warehouse (alts.), 435 North Broad street, Philadelphia, $10,000. Architect, private plans. Owner, H. Belfield Co., on premises. General alterations, electric lighting. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Storage Building, 1114 Shackamaxon street, Philadelphia, $5,000. Architect, private plans. Owners, Otis Elevator Co., Sixteenth and Sansom streets, Philadelphia. Brick, 1 story, 30x80 feet, slag roof, cement and pine floors. Contract awarded to Smith-Hardican Co., 1606 Cherry streets, Philadelphia.

Store and Dwellings (fire repairs), 946 South Fifth street, Philadelphia, $4,500. Architect, private plans. Owner, Morris Sesman, Northeast Corner Fifth and Queen streets, Philadelphia. General restoration. Contract awarded to Domonic Iero, 519 Christian street, Philadelphia.

Store and Dwelling (alts. and add.), 1439 South street, Philadelphia, $4,500. Architect, J. E. Fieldstein, Penfield Building, Philadelphia. Owner, William Lowenthal, on premises. General alterations, hot water heating. Contract awarded to Aaron Rubin, 1127 Thompson street, Philadelphia.

Garage, rear of 1309 North Broad street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owners, Emmanuel Asher & Son, 1612 Diamond street, Philadelphia. Brick, 1 story, 25x39 feet, slag roof, cement floors, metal lath, stone foundations, tile work, iron work. Contract awarded to M. Yellin, 616 Arch street, Philadelphia.

Store (alts. and add.), 1230 Market street, Philadelphia. Architect, David B. Basse[illegible] Perry Building, Philadelphia. Owners, A.[illegible] Geuting & Co., on premises. Limestone [illegible] brick, 4 stories, new front and general alterations, steam heating, electric lighting. Contract awarded to J. S. Rogers & Co., Drexel Building, Philadelphia.

Moving Picture Theatre (alts.), Frankford avenue and Sargent street, Philadelphia, $40,000. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Amber Theatre, on premises. Iron stairs, roof repairs, roof ventilators, composition floors, plastering, waterproofing, painting, glazing, marble and tile work, hardware, plumbing, electric work, carpentry, mill work. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Dye House, Torresdale avenue and Gillingham street, Frankford, $18,000. Architect, private plans. Owner, Joseph Greer, on premises. Brick, 1 story, 127x42 feet (irregular in size), timber roof, cement floors (heating and lighting reserved), mill work, wood

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monitors. Contract awarded to William F. Newberry, Otis Building, Philadelphia.

Factory, Northeast Corner Ruth and Atlantic streets, Philadelphia, $90,000. Architect, private plans. Owner, Samuel D. Manuel, C and Allegheny avenue, Philadelphia. Brick, 2 stories, 64½x199 feet, 7x52 feet, slag roof, steam heating, electric lighting, wood floors, rolled steel sash, elevator, iron work, steel work. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Band Pavilion (alt.), Penrose Ferry road and Twenty-fifth street, $6,000. Architect, private plans. Owner, John Kornie, 2213 South Twenty-first street, Philadelphia. Alterations to pavilion. Contract awarded to T. F. Murphy, 2212 South Twenty-first street, Philadelphia.

Factory (fire repairs), 635 Richmond street, Philadelphia, $3,800. Architect, private plans. Owner, Remington Sherman Co., on premises. General restoration. Contract awarded to Samuel S. Sanders Co., 519 Richmond st.

ore and Apartments, Northwest Corner h and South streets, Philadelphia, $25,- Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, Harry Krengel, Northeast Corner Fifth and South streets, Philadelphia. Brick, 2 stories, 40x46 feet, slag roof, marble and plate glass front, composition floors, steam heat, electric light, cabinet work. Contract awarded to B. Bornstein, 1510 North Franklin street, Philadelphia.

Store and Dwelling (alts.), 5909 Germantown avenue, Philadelphia, $4,750. Architect, private plans. Owner, H. McCaid, 5914 Germantown avenue, Philadelphia. General alterations. Contract awarded to William J. Crowell, 5712 Crittenden street, Philadelphia.

Store (alts.), 5601 Germantown avenue, Philadelphia, $3,500. Architect, private plans. Owners, Smith, Salghest & Eoss, on premises. General alterations. Contract awarded to A. P. Werner, 3245 Germantown avenue, Philadelphia.

Garage, rear of 1511 Spruce street, Philadelphia, $3,200. Architect, private plans. Owner, Mrs. M. Askuycht, on premises. Brick, 1 story, 31x39 feet, slag roof, cement floors. Contract awarded to D. J. McNamee, 1621 North Fifteenth street, Philadelphia.

Shop (add.), 1532-34 Winter street, Philadelphia, $4,000. Architect, private plans. Owner, P. McNichol, on premises. Brick, 1 story, 30x36 feet, slag roof, cement floors. Contract awarded to J. W. Weiss, 1316 Race street, Philadelphia.

Garage, 1522-24 North American st., Philadelphia, $3,750. Architect, private plans. Owner, John Walsh, 1509 North Lawrence street, Philadelphia. Brick, 1 story, 34x76 feet, slag roof, cement floors, electric light. Contract awarded to Fred Gartner, 1434 North Philip street, Philadelphia.

Garage (add.), Wissinoming street, North of Knorr street, $10,000. Architect, private plans. Owners, Henry Disston's Sons Co., Unruh street, Tacony, Philadelphia. Brick, 2 stories, 80x39 feet, hot air heating, electric light, cement floors, steel and iron work. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Building (add.), Hunting Park avenue, East of Twenty-fifth street, Philadelphia. Architect, private plans. Owner, Simmons Co., Kenosha, Wis. 3story front addition, details not decided. Contract awarded to Wark & Co., 1737 Filbert street, Philadelphia.

School (add.), Lehigh avenue and B street, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Roman Catholic Church of the Visitation B. V. M., on premises. Stone work, brick work, 1 story additional, slate roof, wood and composition floors, plastering, heat-

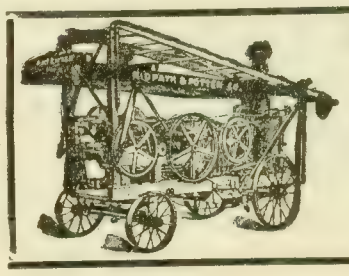


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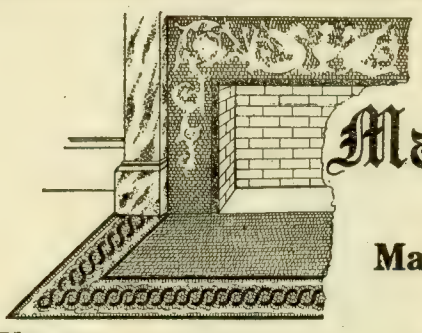
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ing and lighting extensions, mill work. Contract awarded to D. W .O'Dea, 5227 North Fifth street, Philadelphia.

Factory (add.), Northwest Corner Somerdale avenue and P. and R. R. R., $3,500. Architect, private plans. Owner, Stokes, Smith & Co., on premises. Brick, 2 stories, 7½x9½ feet, slag roof. Contract awarded to Robert E. Lamb & Co., 843 North Nineteenth street.

Factory, 1430-32 Brandywine street, Philadelphia, $25,000. Architect, private plans. Owner, George G. Melloy, 1419 Spring Garden street, Philadelphia. Brick and steel, 5 stories, 29x110 feet, slag roof, pine floors (heating and lighting reserved). Contract awarded to H. H. Burrell, 206 S. Quince street, Philadelphia.

Storage Building (fire repairs), northeast corner Third and Callowhill streets, $20,000. Architect, private plans. Owner, Louis Silberman, 328 North Third street, Philadelphia. General restoration from fire damage. Contract awarded to Carl Muller, 328 North Third street, Philadelphia.

Cold Storage Warehouse, northeast corner Warnock and Venango streets, $25,000. Architect, private plans. Owners, McCray & Hunter, on premises. Brick and steel, 1 story, 190 x36 feet, 16x122 feet, irregular, slag roof, pine floors, electric lighting, stone foundations, rolled steel doors. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia.

Residences (2), 515 and 521 Gates street, Philadelphia, $14,000 (add.). Architect, private plans. Owners, N. J. & Norman L. Aspden, on premises. Stone, 2 stories, 16x11 feet, 1 story, 10x9 feet and 2 stories, 30x11½ feet. Contract awarded to E. L. Cuthbertson, 324 Roxboro avenue, Philadelphia.

Storage Siding, American and Dauphin streets, $2,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, F. C. Lotz Co., Morris and Bambrey streets, Philadelphia. Brick, 1 story, 60x140 feet, slag roof, cement floors. Contract awarded to George B. Bond, Sixty-sixth avenue and Thirteenth street, Philadelphia.

Marshall Sub-Station (alts. and add.), Marshall and Noble streets, Philadelphia. Architect, John T. Windrim, Commonwealth Trust Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, stone and steel, 1 story, 44x66 feet, slag roof, cement floors, stone foundation, steam heat (electric light reserved), marble work, roof ventilators. Contract awarded to John R. Wiggins Co., Otis Building, Philadelphia.

Distributing Station, 52 North Sixth street, Philadelphia. Architect, John T. Windrim, Commonwealth Trust Building, Philadelphia. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Brick and concrete, 1 story, slag roof, cement floors, electric lighting, details undecided. Contract awarded to John R. Wiggins & Co., Otis Building, Philadelphia.

Factory (add.), York, Gaul and Cedar sts., Philadelphia, $40,000. Architect, private plans. Owners, H. W. Butterworth & Sons Co., on premises. Brick and steel, 3 stories, 28½x88½ feet, slag roof, rolled steel sash and skylights, plank floors, elevators (heating and lighting reserved). Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine st., Philadelphia.

Garage, 754 Carpenter street, Germantown, Philadelphia, $20,000. Architect, private plans. Owner, James J. McArdle, 518 Arch street, Philadelphia. Brick, 1 story, 45x165

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feet, slag roof, cement floors, electric light. Contract awarded to Philadelphia Realty Co., 111 West Mt. Airy avenue, Philadelphia.

Store and Dwelling (add.), 15 South Sixtieth street, Philadelphia, $4,500. Architect, private plans. Owner, N. Silver, 6014 Chestnut street, Philadelphia. Brick, 1 story, 26x3 feet, slag roof, electric lighting. Contract awarded to Kaplan Greenstein, 717 Walnut street, Philadelphia.

PENNSYLVANIA
Construction News

Laundry, Hlen Iron Station, Laurelton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, State Home for Feeble Minded Women, care of Dr. Wolf, Laurelton, Pa. Brick, 1½ stories, 35x72 feet. Owners taking bids due May 6th. Moore Const. Co., Milton, Pa.; E. R. Pursley, Laurelton, Pa., and Steinbach Sons, Lewistown, Pa., are figuring. (Heating, plumbing and electric work, separate bids).

Residence, Merion, Pa. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 27x40 feet, shingle roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Residence (alts. and add.), Ambler, Pa. Architect, Stewardson & Page, 324 Walnut street, Philadelphia. Owner, William Howard Hart, Ambler, Pa. Architects taking bids. J. Sims Wilson Co. are figuring.

Assembly Building, Andalusia, Pa. Architect, private plans. Owners, Automobile Boat Co., care of Edw. S. Napolis, president, 407 Shubert Building, Philadelphia. Concrete, brick and terra cotta, 1 story, 250x500 feet, slag roof, cement floors, steam heating, electric lighting. Owner will be ready for subbids in about two weeks.

Residences (10), Lock Haven, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, name withheld. Brick, hollow tile and stucco, 2½ stories, 26x40 feet, slate roof, pine floors, stone foundations, hot air heat, electric lighting, plumbing. Architect taking bids. J. M. Yardley, 1716 Sansom street, Philadelphia, is figuring.

Residence, Haverford, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Robert W. Wigton, Morrisdale Coal Co., Ardmore, Pa. Architect taking bids due April 30th at 2 P. M. E. R. Hall, 34 South Seventeenth street; H. E. Grau Co., 1708 Sansom street; Graham & Wells, 3649 Filbert street; Charles C. Pace, Merion, Pa., and W. Harry Roberts, Llanerch, Pa., additional bidders.

Residence, Montgomery avenue and Rose Lane, Haverford, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Charles C. Norris, Jr., West End Trust Building, Philadelphia. Architect taking bids due April 30th at 2 P. M. E. R. Hall, 34 South Seventeenth street; H. E. Grau Co., 1708 Sansom street; Graham & Wells, 3649 Filbert street; Charles C. Pace, Merion, Pa., and W. Harry Roberts, Llanerch, Pa., additional bidders.

Apartment House, Penn Side, Reading, Pa. Architects, Hoff & Mitter, 520 Washington street, Reading, Pa. Owners, Wise & Shaich, on premises. Brick, 3 stories, 81x100 feet, concrete foundations, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Rectory, South Fifth street, Reading, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owner, St. Peter's Roman Catholic Church, care of Father Kiernan, premises. Brick, 3 stories, 43x75 feet, stone foundations ,slate and tin roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Apartment (add. and alt.), 822-24 Penn street, Reading, Pa. Architect, A. F. Smith, Sixth and Court streets, Reading, Pa. Owner, A. M. Kissinger, 826 Penn street, Reading, Pa. Brick and terra cotta, 4 stories, 40x71½ feet, slag roof, hardwood floors, electric light, tile work. Architect will be ready for bids in one week.

Residence, Palmyra, Pa. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, D. U. Landis, Palmyra, Pa. Brick, 2½ stories, 39 feet 5 inches x40 feet, concrete foundations, slate roof, hardwood floors, vapor heat, electric light, tile work. Owner taking sub-bids.

Residence and Garage, Wyomissing, Pa. Architects, Ritcher-Lee Co., Sixth and Court streets, Reading, Pa. Owner, Mr. L. Rehr, Reading Hardware Co., Reading, Pa. Brick, 2½ stories, 37x45 feet, stone foundations, tile roof, hardwood floors, hot water heat, electric light, tile work. Garage, 1 story. Owner taking sub-bids.

School, Baron Hill, Whitemarsh Township, Montgomery County, Pa. Architect, Edwin G. Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Whitemarsh Township School Board, care of Maxwell Strawbridge, Solicitor for Whitemarsh Township School District, No. 7 Main street, Norristown, Pa. Brick and limestone, 1 story, 60x100 feet, wing 40x40 feet, gum floors, steam heating, electric lighting, stone foundations. Owners taking bids due May 10th. Plans may be secured from architect's office upon deposit of $25.00. Refund, $25.00.

Residences (50), Lewistown, Pa. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Chamber of Commerce (Lewistown Housing Corp., Lewistown). Preliminary plans in progress. Too early for details.

Sunday School and Parsonage, Norristown, Pa. Architect, E. T. Boggs, 136 South Fourth street, Philadelphia. Owner, Oak Street Methodist Episcopal Church, Norristown, Pa. Brick, 1 and 1½ stories, 68x69 feet, slate roof, hardwood floors, stone foundations, steam heat, eleteric lighting, tile work. Owners, care of Lawrence Shainline, Norristown, Pa., are taking bids. William R. Shoffner, P. Haughton, A. Alderfer and Frank R. Heavner, all of Norristown, Pa., are figuring.

Service Building, Baum Boulevard, Pittsburgh, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Pittsburgh Autocar Co., Pittsburgh, Pa. Brick, concrete and steel, 1 story, 200x260 feet. Architects taking bids due June 9th. Hughes-Foulkrod Co., Commonwealth Building; Melon-Stuart Co., Nicola Building Co., Edw. A. Wehr, Cuthbert Bros. Company and W. T. Grange Const. Co., all of Pittsburgh, Pa., are figuring.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, Lewis

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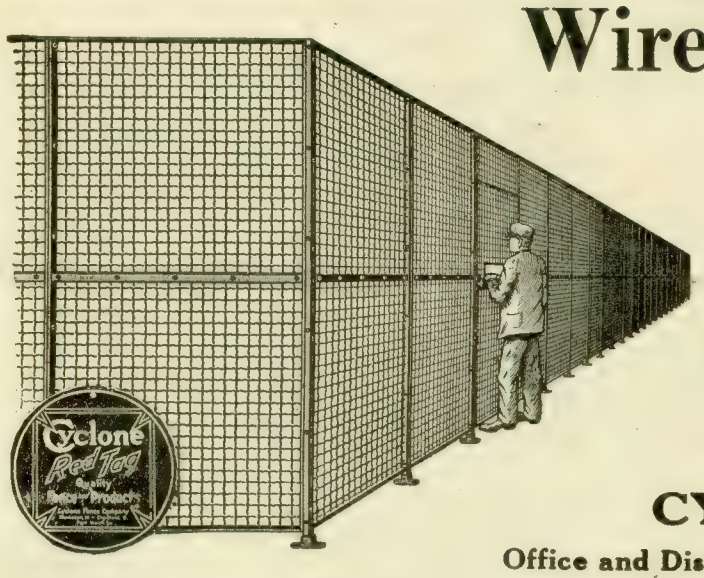
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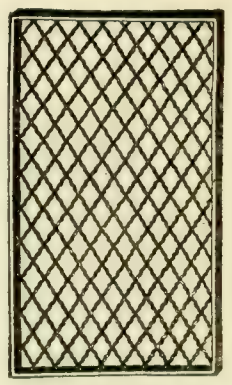


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S. Sadler, State Highway Commissioner, Capitol Building, Harrisburg, Pa. Bids will be opened at 10 A. M. May 11th at State Capitol. Proposal forms and specifications free. Plans $2.50 per set.

Chester County, Route 147, West Whiteland, Uwchland, West Uwchland, West Vincent, East Nantmeal and South Coventry Townships. Length, 65,367 feet. One course reinforced concrete. Certified check $4,000.

Chester County, Route 142, Tredyffrin and Easttown Townships. Length, 4,963 feet. Concrete foundation, including grading and drainage. $1,000.

Cumberland County, Applis. 394 and 231, West Fairview Borough and East Pennsboro Township. Length, 13,407 feet. One course reinforced concrete. $3,500.

Delaware County, Route 225, Radnor, Haverford and Marple Townships. Length, 27,642 feet. One course reinforced concrete and hillside vitrified brick. Certified check $4,000.

Erie County, Route 87, Harbor Creek Township. Length, 7,300 feet. One course reinforced concrete. Certified check $1,500.

Erie County, Route 87, Northeast Borough. Length, 1,635 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. $1,000.

McKean County, Route 96, Foster Township. Length, 6,577 feet. Either one course reinforced concrete or vitrified brick. Certified check $1,500.

Northampton County, Route 156, Williams Township. Length, 34,904 feet. One course reinforced concrete. Certified check $4,000.

Schuylkill County, Route 162, Blythe and East Norwegian Townships, Mechanicsville, Port Carbon, New Philadelphia and Middleport Boroughs. Length, 38,315 feet. One course reinforced concrete. Certified check $4,000.

Somerset County, Route 51, Elklick Township and Salisbury Borough. Length, 27,917 feet. One course reinforced concrete. Certified check $4,000.

Susquehanna County, Routes 9 and 10, North Milford Township and North Milford Borough. Length, 18,564 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Certified check $3,500.

Venango and Mercer Counties, Route 207, French Creek Township, Mercer County, and Canal Township, Venango County. Length, 27,596 feet. One course reinforced concrete. Certified check $4,000.

Venango County, Route 207, Canal and Sugar Creek Townships. Length, 17,250 feet. One course reinforced concrete. Certified check $3,500.

Venango County, Route 208, Sandy Creek and French Creek Townships. Length, 19,033 feet. Either bituminous macadam on Telford base and hillside vitrified brick or one course reinforced concrete and hillside vitrified brick. Certified check $3,500.

Warren County, Route 93, Appli. 973-74, Tidioute Borough. Length, 12,012 feet. Either one or two course reinforced concrete. Certified check $2,500.

York County, Route 332, Windsor, Springettsburg and Spring Garden Townships. Length, 17,630 feet. One course reinforced concrete. Check $7,000.

Road, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, State Capitol Building, Harrisburg, Pa.

Sealed proposals will be received until 12 noon, May 11th, at office of Public Service Commission, at State Capitol, for construction of the following road. Certified check to be made payable to the Public Service Commission:

Bedford County, Route 39, Snake Spring and West Providence Townships. Length, 2,300 feet. One course reinforced concrete, 18 feet wide. Certified check $1,000. Proposal forms and specifications free; plans $2.50 per set.

Bank, York, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner's name withheld. Brick, 2 stories, 35x55 feet, electric light, tile and marble work. Preliminary plans in progress. Too early for details.

Residences (42), East Market street, York, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, York Home Building Association, Mr. Max Grumbacher, York, Pa. Brick, hollow tile, stucco, 2 stories, 22x24 feet, hardwood floors, electric light, tile work. Plans in progress.

Grand Stand, Lewistown, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owner, Mr. S. Russel, Russel National Bank, Lewistown, Pa. Frame, 2 stories, 15x200 feet, composition roof, composition floors, electric light, seating capacity 4,000. Plans in progress.

Residences (50), York, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, York Home Building Association, care of Max Grumbacher, York, Pa. Brick, 2 stories, 19x35 feet, concrete foundations, slag

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roof, pine floors, pipless heat, electric light. Plans in progress.

Apartment (alts. and add.), 35 North Queen street, York, Pa. Architects, Gimmel & Billmeyer, Rossmiller Building, York, Pa. Owner, J. T. Zeigler, 207 West Market street, York, Pa. Brick, 3 stories, 22x85 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Architect will take revised bids next week.

Residence, Red Lion, Pa. Architects, Gimmel & Billmeyer, Rossmiller Building, York, Pa. Owner, Mr. Purd Neff, Red Lion, Pa. Stucco, 2 stories, 49x32 feet, stone foundations, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architects taking bids, due May 5th. W. A. Thompson and Mr. Smith, Red Lion, Pa., are figuring.

School, Aldan, Pa. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, Aldan, Pa. Brick, 2 stories, slag roof. Plans about completed. Will be ready for bids in one week.

Sunday School, Center and Market streets, Sunbury, Pa., $40,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, First Presbyterian Church, care of Charles Sidler, Sunbury, Pa. Brick, 2 stories and basement, 55x70 feet, composition roof, pine floors, steam heat, electric light, tile work. Plans completed. Owners are ready for bids.

Church (alts. and add.) and Sunday School (rebuilding), Ashbourne, Pa. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, Ashbourne Presbyterian Church, Rev. Richard Montgomery, on premises. Stone, 2 and 3 stories, 50x60 feet, and 1 story, 20x40 feet, slate roof, pine floors, steam heat, electric lighting, tile work. Plans in progress.

House, Millersburg, Pa. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owner, H. F. Erieg, Millersburg, Pa. Hollow tile, 2 stories, 20x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Hotel (alts. and add.), North Queen street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Schlotzhauer, Green and Christian streets, Lancaster, Pa. Brick and concrete, 4 stories, 100x150 feet, concrete foundations, slag roof, wood floors, steam heat, electric light, tile and marble work, general interior alterations, 2 elevators, roof ventilators, ornamental cornice, fire escapes. Owner will build.

Houses (20), Lock Haven, Pa., $200,000. Architects, Lawrie & Happley, 206 Market street, Harrisburg, Pa. Owners, Lock Haven Home Building Co., care of architects. Too early for details.

Church (alts.), Shippensburg, Pa., $25,000. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owners, Church of God, Rev. H. R. Lobb, on premises. Brick, interior and exterior alterations. Plans in progress.

School (add.), Fifth and Mantangue sts., Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board, care of D. Hammelbank, Harrisburg, Pa. Brick, reinforced concrete, 3 stories, 2 wings, slag roof, hardwood floors,, electric light, roof ventilators. Owner will be ready for bids in one week.

Central Heating Plant, Littlestown, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, Hoffman Orphanage, care of architect. Architect will be ready for bids in one week.

Central Heating Plant, Shippensburg, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, State Normal School, Shippensburg, Pa., care of architect. Architect will be ready for bids this week.

Bank, Highspire, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Highspire State Bank, care of architect. Brick, frame, 1 story, 50x30 feet, concrete foundation, asphalt roof, pine floors, vapor heat, electric light. Architect taking bids. W. E. Bushey, J. F. Saussaman, and C. W. Strayer, Harrisburg, Pa, are figuring.

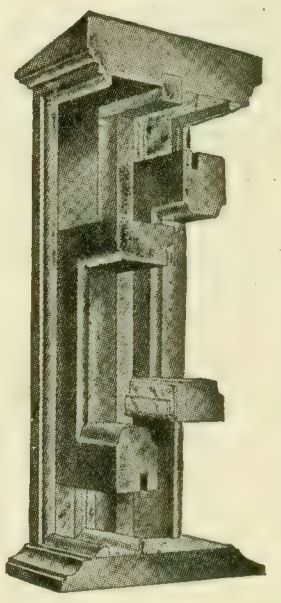
Hotel (alts.), Fourth and Market streets, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owners, Mt. Pleasant Hotel, W. J. Cozzole, on premises. Interior and exterior alterations, hardwood floors, plate glass. Plans in progress. Owner will take sub-bids.

Apartment and Warehouse (alts. and add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, J. Pefheminger, North Penn street, Lancaster, Pa. Brick, 3 stories, slag roof, pine floors, cement floors, interior alterations. Preliminary plans in progress.

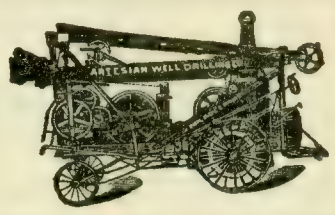
Residence, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner's name withheld. Frame, 2½ stories, 40x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Preliminary plans in progress.

Store Rooms (add.), Penn street, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Watt & Shand, on premises. Brick and steel, 4 stories, 60x 102 feet, slag roof, maple floors, heating extension, electric light, plate glass, elevators. Architect will be ready for bids in one week.

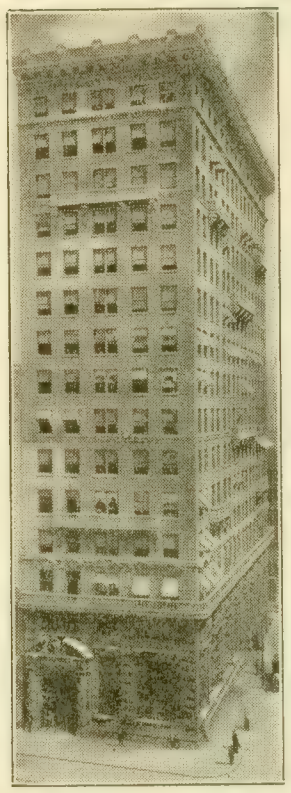
Residences (10), Lancaster, Pa. Architect,


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M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Farnum Co., care of architect. Brick, 2½ stories, 20x28 feet, slate roof, pine floors, hot air heat, electric light. Architect will be ready for bids May 10th.

Lodge Hall, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Knights of Malta, care of Phautz Bros., Lititz, Pa. Frame, 1 story, 60x70 feet, slag roof, hardwood floors, steam heat, electric light. Architect taking bids, due May 3rd. H. Neaman, Lititz, Pa., is figuring.

Church (alts.), Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Moravian Church, care of architect. Gymnasium, new plumbing, cement floors, tile work, cement work. Architect taking bids, due as soon as possible. H. Leaman, Lititz, Pa., and Luther Wolsen, Parkside avenue, Lancaster, Pa., figuring.

Residence (alts.), Lancaster, Pa., $10,000. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, W. B. Long, Lancaster, Pa. General interior and exterior alterations, shingle roof, hardwood floors, tile work. Owner will sub-let.

Pennsylvania Contracts Awarded

Residence, 217 North Eleventh street, Reading, Pa. Architect, Calvin Young, 226 Sixth street, Reading, Pa. Owner, Mr. A. Fisher, 737 Washington street, Reading, Pa. Brick, 58x20 feet, stone foundations, composition roof, pine floors, pipeless heating, electric lighting. Contract awarded to Charles Schlegel, Reading, Pa.

High School (add.), Ardmore, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Lower Merion Township School Board, Ardmore, Pa. Stone and brick, 1 story, 14x24 feet, Johns-Manville roof, cement floors, safety treads, stone foundations, steam heat, electric light. Contract awarded to Bowden Const. Co., 1713 Sansom street, Philadelphia.

Church and Sunday School (alts. and add.), Bethlehem, Pa. Architects, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, North Side Presbyterian Church, Bethlehem, Pa. Brick, 1 story and basement, 80x60 feet, slate and slag roof, pine floors, iron work, plastering, hardware, mill work, painting, glazing (heating, electric work and plumbing reserved). Contract awarded to R. S. Rathbun Cont. Co., Bethlehem, Pa.

Hotel, 327 Market street, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, A. Bellhas Memanic, on premises. Brick and concrete, 6 stories, 26x210 feet, concrete foundations, asphalt roof, concrete floors, vapor heat, electric light, tile and marble work, rolled steel sash and skylights, fire doors, iron stairs, roof ventilators, ornamental iron work. Contract awarded to Central Const. Co., Harrisburg, Pa.

Chapel, Wiscovesco and Lexington streets, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner's name withheld. Stone, plaster, 1 story and basement, 40x60 feet, stone foundations, slate roof, wood floors, hot air heat, electric light. Contract awarded to J. F. Saussaman, Harrisburg, Pa.

Factory, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, E. & H. Levy, Inc., Fourth avenue and Nineteenth street, New York. Brick, concrete, mill construction, 1 story, 50x194 feet, stone foundations, asphalt roof, steam heat, electric light, rolled steel sash, 3 fire doors, roof ventilators (plumbing and heating reserved). Contract awarded to H. A. Lackey, Carlisle, Pa.

Trades and Service Building, Quincy, Pa. Architects, Kast & Kepler, Commonwealth Building, Harrisburg, Pa. Owner, Quincy United Brethren Orphans' Home, care of H. J. Kitzmeyer, Quincy, Pa. Brick, 2 stories and basement, 125x75 feet, slate roof, concrete floors, steam heat, electric light. Contract awarded to W. A. Pentz, Scotland, Pa.

High School, Swissvall, Pa., $400,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Swissvall School Board, C. C. Kelso, Swissvill, Pa. Brick, reinforced steel, 3 stories, 148x180 feet, concrete foundations, slag roof, maple floors, hot air heat, electric light, tile work. Contract awarded to A. & S. Wilson Co., 541 Third avenue, New York.

Bank, Shippensburg, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, People's Bank, G. W. Hines, president, Shippensburg, Pa. Brick, 1 story, 56x53 feet, concrete foundations, slag roof, hardwood floors, vapor heat, electric light, tile floors, marble work. Contract awarded to C. E. Cumpt, Chambersburg, Pa.

School (alts. and add.), Camp Hill, Pa. Architects, Kast & Kepler, Commonwealth Building, Harrisburg, Pa. Owners, Camp Hill School District, U. G. Fry, Camp Hill, Pa. Brick, 2 stories, 25x75 feet, slate roof, pine floors, electric light, interior work. Contract awarded to W. E. Bushey, Harrisburg, Pa.

Factory and Office, South Harrisburg, Pa., $25,000. Architect, private plans. Owners, Jackson Manufacturing Co., care of P. Hambay, Fourth and Boyd streets, Harrisburg, Pa. Brick, reinforced concrete, 1 story, 480x90 feet, concrete foundations, asphalt roof, cement floors, Webster heating system, electric light, steel work, hollow metal sash. Contract awarded to Central Const. Co., Harrisburg, Pa.

Hotel (alts.), to Store and Office, Market street, Harrisburg, Pa. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owners, Yoffel Bros., Senate Hotel, Harrisburg, Pa. Brick, composition roof, metal cornice, plate glass, interior work. Contract awarded to H. N. Gettys, Harrisburg, Pa.

Garage, 1027-29 Market street, Harrisburg, Pa. Architect, private plans. Owners, Conover & Wolf, Harrisburg, Pa. Brick, 2 stories, 45x106 feet, 52x62 feet, concrete foundations, slag roof, concrete floors, steam heat, electric light, hollow metal sash. Contract awarded to W. H. Wagner, Harrisburg, Pa.

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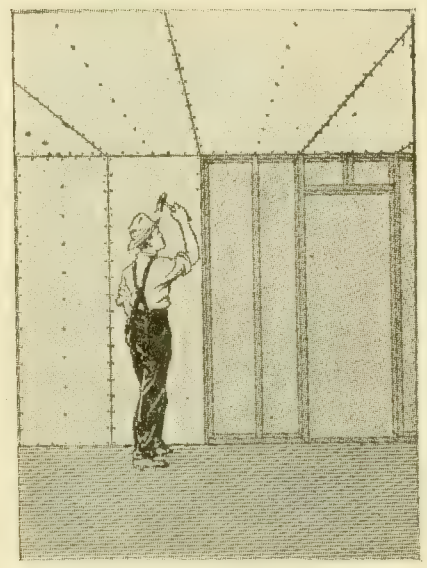
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New Jersey Construction News

Residence (renovation) and Garage, Mt. Holly, N. J. Architects, E. A. Wightman and W. G. LeConey, associate, Heed Building, Philadelphia. Owner, J. T. Royle, Mt. Holly, N. J. General renovation of residence, garage, 1 story, hollow tile and stucco, 22x24 feet. Contract for masonry, excavation, carpentry, plastering, etc., awarded to Walter Allen, Mt. Holly, N. J. (Heating, plumbing and electric work separate bids.) Architects taking sub-bids on hardwood floors, tile work, tile roof and metal weather strips.

School, Cedar Brook, Winslow Township, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, Township of Winslow, care of Horace Angelow, Clerk, Berlin, N. J. Engineers, Remington & Vosbury, Camden, N. J. Brick, 2 stories. Architects taking bids due April 30th. William Congezer, Haddon Heights, N. J.; Fred A. Lange, Audubon, N. J., and George W. Shaner, Palmyra, N. J., are figuring.

Bank Building, Twenty-sixth and Federal streets, Camden, N. J. Architect, Philip Merz, Pennsylvania Building, Philadelphia. Owner, East End Trust Co., care of Leon E. Todd, 2623 Westfield avenue, Camden, N. J. Brick, 1 story, slag roof. Preliminary plans in progress.

Bungalow, Ventnor, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, C. S. Barrett, Ventnor, N. J. Cement and frame, 1½ stories, 28x40 feet, concrete foundations, asbestos shingle roof, pine floors, pipeless heating, electric lighting, tile work. Owner taking bids. P. G. Hannum, H. G. Scull, both of Atlantic City, N. J., and Charles Corson, Lynwood, N. J., are figuring.

Apartment, Atlantic and New Jersey avenues, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, M. McGuirk, on premises. Brick, 3 stories, 40x85 feet, concrete foundations, slag roof, pine floors, hot water heat, electric light, tile work. Thompson Bros., 14 South Ohio avenue, Atlantic City, N. J., are taking sub-bids.

Theatre (alt. and add.), Florida and Atlantic avenues, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Central Theatre, care of S. Greenburg, on premises. Brick, 1 story, 65x100 feet, stone foundations, slag roof, tile floors, hollow tile, electric light, tile, marble and terrazzo work, roof ventilators. Plans in progress.

Apartment (alt. and add.), 1905 Pacific avenue, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Dr. Ed. M. Doughty, 1902 Pacific avenue, Atlantic City. Brick, 1 story, 26x31 feet, concrete foundations, slag roof, hardwood floors, vapor heating, electric lighting, tile work, general interior alterations. Plans in progress.

Hotel (alt. and add.), 125 South Rhode Island avenue, Atlantic City. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City. Owner, Hotel Biltmore, care of Mr. Malamut, on premises. Frame, general interior work. Owner ready for bids.

Bungalow, Ventnor, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Mr. S. Rosenbaum, Atlantic avenue, Atlantic City, N. J. Brick, stucco, 1½ stories, 30x60 feet, concrete foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids. H. Scull and W. B. Porch, both of Atlantic City, N. J., are figuring.

City Hall (add.), Woodbury, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, City of Woodbury, City Hall, Woodbury, N. J. Brick, 2½ stories, 24x30 feet, slate roof, general remodeling. Owners have received revised bids.

Bank (alts. and add.), Third and Pine streets, Camden, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owners, First Italian Bank, care of Anton Di Paola, on premises. Brick, 2 stories, 22x60 feet, slag roof, tile work, general interior alterations, tile floors. Architects ready for bids in a week.

Church, Sunday School and Parsonage, Broad street and Annabella avenue, Trenton, N. J. Architects, Chas. W. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Pilgrim Presbyterian Church, care of Edw. Lee, City Hall, Trenton, N. J. Brick. Preliminary plans in progress.

Buildings (2), Morris Plains, N. J. Architect, F. H. Bent, State Architect, Capitol Building, Trenton, N. J. Owners, New Jersey State Hospital, Morris Plains, N. J. Stone, brick, terra cotta, steel, 2½ stories, 216x82 feet, tin and slate roof, tile, marble and terrazzo, cement and composition floors, metal lath, safety treads, rolled steel sash and skylights, iron stairs, ornamental iron work, dampproofing, stone foundations (plumbing, heating and electric lighting reserved). Architect taking bids, due May 18th. Standard Const. Co., 1713 Sansom street, Philadelphia, is figuring.

Y. W. C. A., Broadway and Stevens street, Camden, N. J. Architect, Wm. Copeland Furber, 418 Walnut street, Philadelphia. Owners, Y. W. C. A., care of Miss W. C. Parkhurst, Business Secretary, on premises. Sketches being prepared. Too early for details.

Club House (add.), 633-37 Market street, Camden, N. J., $100,000. Architect, Joshua C. Jefferies, 1001 Chestnut street, Philadelphia. Owners, Loyal Order of Moose, care of Thos. A. Colsey, 339 North Eighth street, Camden. Brick, 3 stories. Plans in progress. Too early for details.

New Jersey Contracts Awarded

Factory, Trenton, N. J. Architect, Walter Hankin, 239 South Warren street, Trenton, N. J. Owner, H. D. Lee Mercantile Co., Kansas City, Mo. Reinforced concrete, 6 stories and basement, 67x156 feet, slag roof, hardwood floors, concrete floors, steam heat, electric light, rolled steel sash, elevators, roof ventilators, dampproofing. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Apartments (and Restaurant), West State street, Trenton, N. J. Architect, Walter Hankin, 239 South Warren street, Trenton, N. J. Owner, C. F. Hildebrecht, Trenton, N. J. Stone, concrete, brick, steel and terra cotta, 6 stories, 50x240 feet, slag roof, hardwood floors, steam heating, electric lighting, tile and marble work, rolled steel sash, elevators, roof ventilators. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Bungalow, Lafayette avenue, Ventnor, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City. Owner, Mrs. Van Valkenberg, Ventnor, N. J. Frame, 1 story, 28x40 feet, asphalt shingle roof, pine floors, tile work, hot water heating, electric lighting. Contract awarded to John Auld, Pleasantville, N. J.

Nurses' Cottage, Atlantic City, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owner, Board of Chosen Freeholders, care of F. F. Doughtry, Absecon, N. J. Frame, 2 stories, 34x52 feet, brick foundations, shingle roof, hardwood

Portland Cement, Sand or Gravel by carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

floors, hot water heating, electric lighting, tile work. Contract awarded to Summers S. Stillman, Atlantic City, N. J.

Apartment, 115-17 South Metropolitan avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City. Owner, William Weber, care of builder. Brick, 2 stories, 40x36 feet, concrete foundations, slag roof, pine floors, hot water heating, electric lighting, tile work. Contract awarded to Modern Heating & Plumbing Co., 138 South New York avenue, Atlantic City.

Shed and Garage, Fairton, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, Joseph T. Shoemaker, care of architects. Hollow tile, 1 story, 50x100 feet, concrete foundations, asphalt shingle roof, electric lighting. Contract awarded to H. H. Hankins, Bridgeton, N. J.

Delaware Construction News

Residences (4), Hamilton street, Wilmington, Del. Architect, John Canning, Lodge Building, Wilmington, Del. Owner, Diamond Eng. Co., 226 North Ninth street, Wilmington, Del. Brick and stucco, 2½ stories, 33x33 feet, slate roof, steam heat, electric lighting, hardwood floors, tile work. Plans in progress.

Apartment and Store, Wilmington, Del. Architect, John Canning, Lodge Building, Wilmington, Del. Owner, W. H. Ryan, Thirteenth and Washington streets, Wilmington, Del. Brick, 4 stories, 60x120 feet, stone foundations, slate roof, hardwood floors, electric lighting, tile work, rolled steel skylights. Plans in progress.

Office Building, 812 King street, Wilmington, Del. Architect, John Canning, Lodge Building, Wilmington, Del. Owner, Mundy & Co., 706 Market street, Wilmington, Del. Brick and steel, 2 stories, 27x75 feet, slag roof, hardwood floors, electric lighting. Plans in progress.

Garage, Second and Greenhill street, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Wilmington Leather Co., on premises. Brick, 1 story, 31x52 feet, slag roof, cement floors, electric lighting, hollow metal sash, roof ventilators, steel rolling doors. Architect taking bids due April 28th. C. J. Dougherty, J. A. Bader & Co., J. E. Healy & Son and W. D. Haddock & Co., all of Wilmington, Del., are figuring.

Y. W. C. A. Building, Ninth and King streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Y. W. C. A., care of architect. Brick, 5 stories, 87x140 feet, slag roof, hardwood floors, steam heat, electric light, tile, marble and terrazzo work, elevators, roof ventilators, hollow metal skylights, fire doors. Architect taking bids due May 8th. Standard Const. Co., 1713 Sansom street, Philadelphia; Watts Const. Co., Garrett Building, Baltimore, Md.; W. D. Haddock Co., 804 Orange street, and Stewart-Willey Co., Eleventh and Orange streets, Wilmington, Del., are figuring.

Residence and Garage, Riverview, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick, 2½ stories, 68x38 feet, slate roof, concrete floors, electric lighting. Architect taking sub-bids.

Residences (2), 2408-10 West Eighteenth street, Wilmington, $14,000. Architect, private plans. Owner, E. E. Johnson, 241 Washington street, Wilmington, Del. Brick, 2 stories, 16x30 feet, slag roof, pine floors, electric light, tile work. Owner will build.

Residence, 1506 West Seventh street, Wilmington, Del., $5,250. Architect, private plans. Owner, P. M. DeBartle Morris, 831 Union street, Wilmington, Del. Brick, 2 stories, 16x50 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

Theatre (alts.), Seaford, Del. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, W. Ford Breeding, Federalsburg, Md. General renovation. Architects taking bids due May 1st. A. L. Elliott & Son, Laurel, Del.; Consolidated Eng. Co., 243 Calvert Building, Baltimore, Md.; Lee Johnson, R. G. Evans & Co. and E. S. Adkins & Co., all of Salisbury, Md., are figuring.

Elks Home, Delaware avenue, Washington and Eleventh streets, Wilmington, Del., $260,000. Architects, selected, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owners, Benevolent Protective Order of Elks, Wilmington, Del. Building to be 6 stories, size of lot 108½x73½ feet, 87x35 feet. Working plans in progress. Too early for details.

Building, Wilmington, Del. Architect, Edw. Canby May, Dupont Building, Wilmington, Del. Owners, Y. W. C. A., Wilmington, Del. Brick, steel and cut stone, 5 stories, 133x73 feet, composition roof, tile, marble and terrazzo work, stone foundations, composition and oak floors, hollow tile, metal lath, safety treads, roof ventilators, waterproofing, dampproofing, iron stairs, iron work (heating, electric work, elevators and plumbing reserved). Architect taking bids, due May 8th. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

Stores (12), Market street, Wilmington, Del., $20,000. Architect, private plans. Owner, Dr. D. Rosseman, 1200 Market street, Wilmington, Del. Brick, 1 story, 16x35 feet, stone foundation, slag roof, wood floors, electric lighting. Contract awarded to J. B. Sparks, 401 West Twenty-third street, Wilmington.

Bungalow, Thirty-second street, Wilmington, Del., $5,000. Architect, private plans. Owner, Mr. Bayless, Twenty-ninth and Market streets, Wilmington, Del. Brick and stucco, 1½ stories, 28x34 feet, asbestos shingle roof, stone foundations, steam heat, electric light, tile work. Contract awarded to A. Eckman, Gordon Heights, N. J.

Bakery, Vandone avenue, Wilmington, Del., $24,000. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Radcliffe Bakery Co., Ninth and Poplar streets, Wilmington. Brick, 2 stories, 70x100 feet, asbestos shingle roof, pine and cement floors, electric lighting, roof ventilators. Contract awarded to J. E. Healy & Son, Wilmington, Del.

Store and Apartment (alt. and add.), 802 King street, Wilmington. Architect, private plans. Owner, Dr. E. W. Ryan, 1319 Washington street, Wilmington, Del. Brick, 2 stories, 20x50 feet, stone foundations, slag roof, interior alterations. Contract awarded to Hendle Samuorst, 1600 West Fourteenth street, Wilmington, Del.

Miscellaneous Contracts Awarded

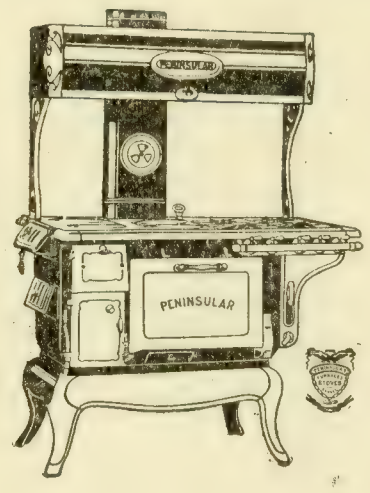
Office Building, Sixtieth street, West of Broadway, New York City, $1,000,000. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia, and A. Newton Bond, Boston, Mass. Owners, American Bosch Magneto Corp, 223 West Forty-sixth street, New York City. Reinforced concrete, brick and terra cotta, 12 stories, 96x73 feet, slag roof, cement, mosaic, granolithic and tile floors, stone foundations, steam heating, electric lighting, marble work, hollow tile, metal lath, elevators, hollow metal sash and skylights and doors, waterproofing, iron stairs, iron work. Contract awarded to Justin C. O'Brien, Fifty-ninth street and Madison avenue, New York City.

Proposals

PICATINNY ARSENAL, Dover, N. J.—Proposals for installing overhead steam mains, sewer pipe lines and sewage disposal plant, material furnished by the United States, will be received until 1 o'clock P. M., May 7th, 1920. Apply to Commanding Officer.

NO LIEN CONTRACTS (PHILADELPHIA)

Date.	Contractor.	Owner.	Building.	Location.
4/19	Barker Painting Co.	Rumsey Elec. Co.	Painting and Glazing	1007 Arch St.
4/19	Elias Nusbaum	Kellers, Inc.	Electrical Work	N. E. Cor. 16th and Sansom Sts.
4/19	W. G. Cornell Co.	Kellers, Inc.	Plumbing and Heating	N. E. Cor. 16th and Sansom Sts.
4/20	All Con. & Mat. Men	Stephen A. Buckman	10 Houses	Somerville, West of 11th St.
4/20	A. H. Raub	Hardwick & Magee Co.	Dust Separator	7th St. and Lehigh Ave.
4/20	Mr. Meyerson	Isaac Malis	Alteration and Repairs	1123 South St.
4/21	J. S. Rogers Co.	A. H. Geuting Co.	Alt. and Add.	1230 Market St.
4/21	Smith, Hardican Co.	J. E. Frechie & Co.	Alt. and Add.	27 North 7th St.
4/21	Tourison & Tourison	R. Venturi & Bro.	Market	1430-32 South St.
4/21	S. Kaplan	S. Feltman	Alt. and Add.	2846-48 North 5th St.
4/21	J. Sellers Pennock	J. E. Frechie & Co.	Plumbing, Etc.	27 North 7th St.
4/22	William Gordan Corp.	Rumsey Electric Co.	Electric Wiring	1007 Arch St.
4/23	All Con. & Mat. Men	Abraham Somerfield	12 Houses	47th and Walnut Sts.
4/23	Kaplan-Greenstein Co.	M. N. Silver	Alt. and Repairs	15 South 60th St.
4/23	J. S. Thorn Co.	Levick & Waldow	Steel Sash	Erie Ave. near Amber St.
4/23	McFarland Meade Co.	Hardwick & Magee Co.	Sheet M. W'k & Fire D'rs	7th and Lehigh Ave.
4/23	M. Yellin	A. L. Asher	Garage	Rear of 1309 North Broad St.



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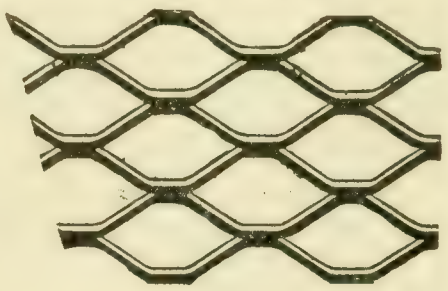
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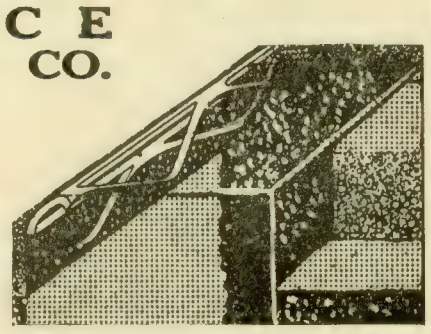
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Nicholas, A. J., & Co.....Bulletin Bldg., Phila.
Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

ARTESIAN WELL PUMPS.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BELTING
Bond, Chas., Co.....617 Arch St., Phila.

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BRICK (Tapestry, Face, Common, Paving).
Collingdale Brick Co....Franklin Trust Bldg., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.
Pardee, John S. E., & Co.....Heed Bldg., Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Pomeroy Const. Co. .....1609 Ranstead St., Phila.

BUILDERS' SUPPLIES.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.

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Petronite Mfg. Co. .....531 N. 9th St., Phila.
Phila. Mineral Flooring Co..5632 Summer St., Phila.
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Buchanan & Co., J. F. .....1719 Chestnut St., Phila.

ELECTRICAL CONSTRUCTION.
Baird-Osterhout Const. Co..1620 Chancellor St., Phila.
Buchanan & Co., J. F.....1719 Chestnut St., Phila.

ELEVATORS.
A. B. See Electric Elevator Co., Colonial Trust Bldg., Phila.

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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

FACE AND CUT STONE.
Holmesburg Granite Co..Commercial Tr. Bldg., Phila.

FENCES.
Anchor Post Iron Works, Real Estate Trust Bldg., Phila.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Pettit, Frank, Ornamental Iron Works, 809 Master St., Phila.

FIREPROOFING.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.
Truscon Steel Co. .....Commonwealth Bldg., Phila.

FLOOR PLATES.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Klein Stove Co. .....700 N. Front St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

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Voight Co. .....1743 N. 12th St., Phila.

GARAGE HEATERS.
Reeves Stove and Foundry Co..38 S. 2nd St., Phila.
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Apeldorn & Beatty Co.....155 N. 9th St., Phila.
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Herman Hoopes, Inc..Real Estate Trust Bldg., Phila.
Stokes, Packard, Haughton & Smith, 434 Walnut St., Phila.
Wagner, Taylor, Edson Co., Inc.422 Walnut St., Phil.
Insurance Co. of North America, 3rd and Walnut Sts., Phila.

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McCalla Co., The Harold.....531 N. 4th St., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

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West Phila. Art Glass Works..4218 Market St., Phila.

LEVELS.
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LIGHT IRON CONSTRUCTION.
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Lederle, Robt. B.....Witherspoon Bldg., Phila.
Pettit, Frank, Ornamental Iron Works, 809 Master St., Phila.

LUMBER.
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Janney Lumber Co.....1147 Beach St., Phila.
Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

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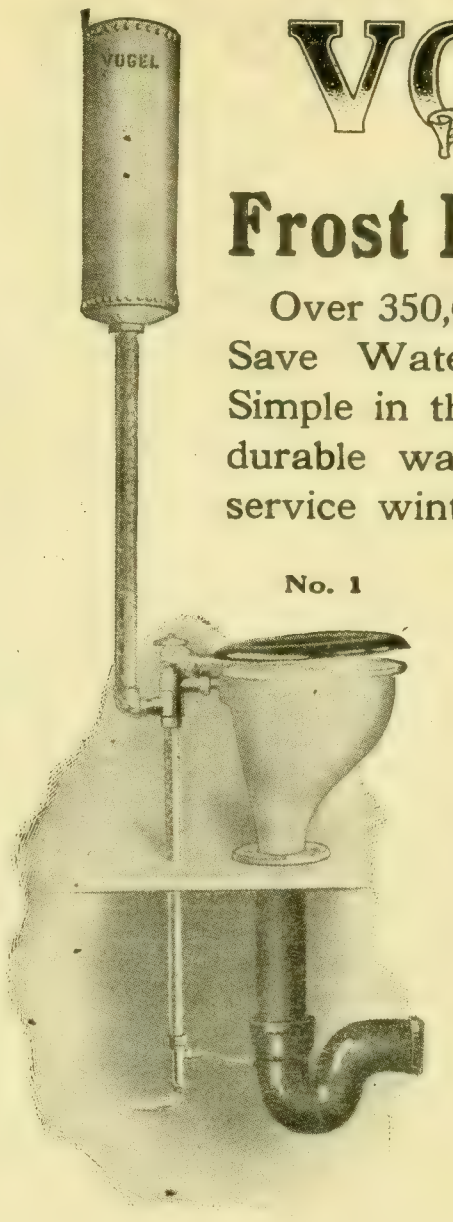
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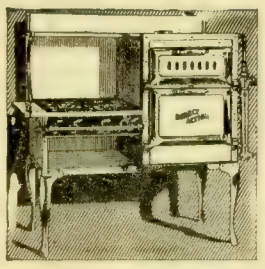
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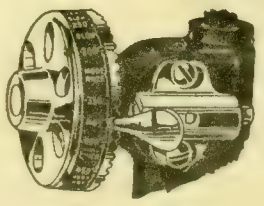
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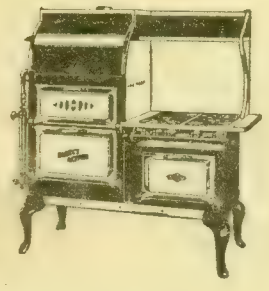
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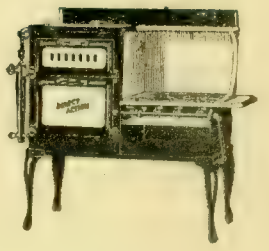
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May 5, 1920

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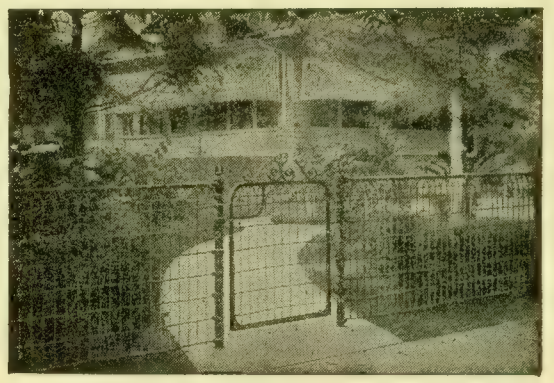
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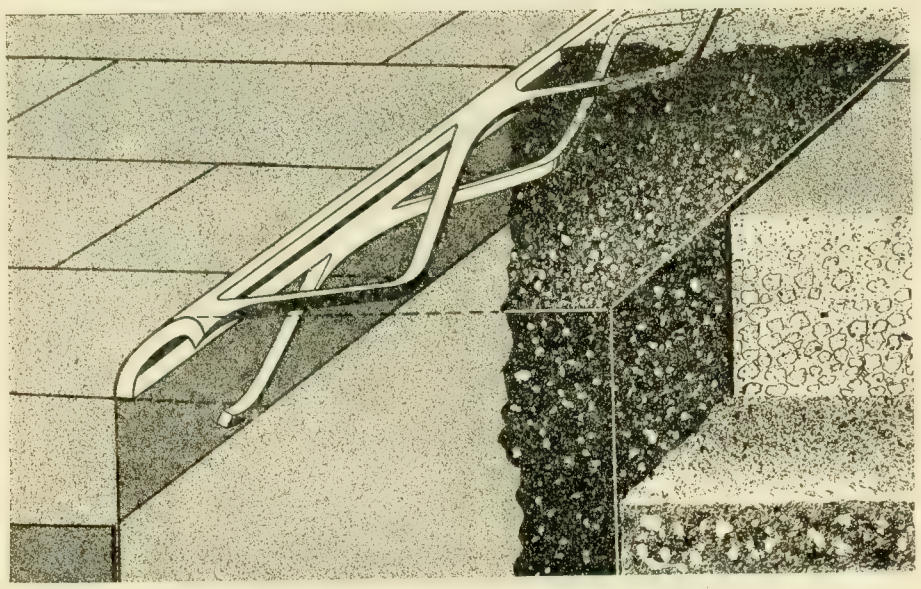
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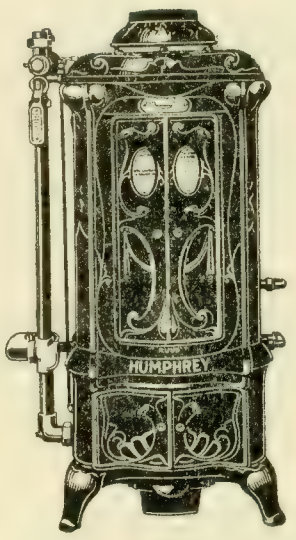


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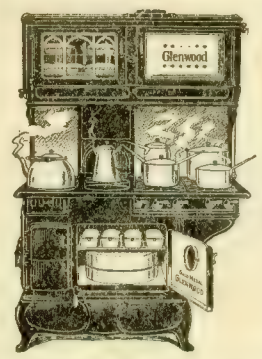
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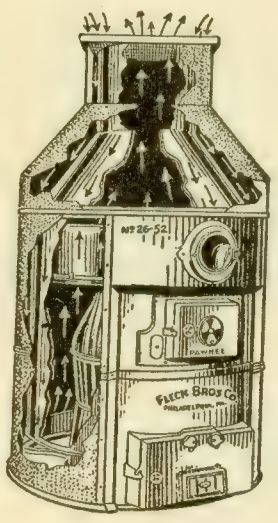


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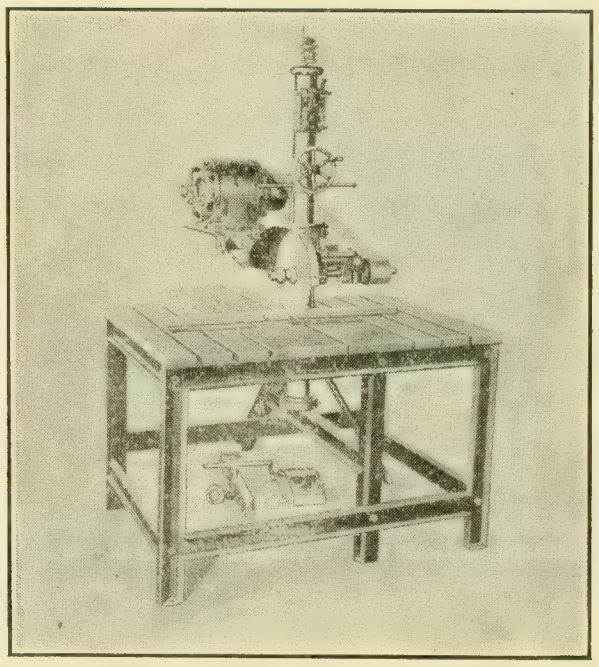
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VOLUME XXXV
Number 18

PHILADELPHIA
May 5, 1920

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As The Editor Sees It

DISORDER, unrest, underproduction and strikes abound throughout the country. Many thoughtful business men are giving much time to perfect plans tending to alleviate these conditions and to effect greater harmoney between employers and employees. Activities of the Iron League of Philadelphia have been particularly noticeable recently and an endeavor has been made to effect open shop in the various iron industries. The following communication, under date of April 26, has been received by the GUIDE, and is indicative of the sentiment of many associations connected with the building industry:

"Since conditions in Philadelphia are similar in many respects to those in New York, the enclosed letter will be of special interest. The same attempt has been made here,—and has not been abandoned,—to put the building industry upon a general closed-shop basis. The Iron League trade here, as in New York, has organized to resist this effort and to maintain the right to employ workers without discrimination as between union and non-union men. It is now generally admitted in New York that the effort to force a closed shop in the iron erection has failed.

The Iron contractors here have the same legal rights as relied upon by the iron contractors in New York. The same Iron Workers' Union is involved, and in its "agreements" to take effect May 1st in Philadelphia the demands of this union absolutely preclude any control of the contractor over the work or its cost. A closed shop is demanded, foremen must be members of the union, record of individual work cannot be kept, sympathetic strikes are permitted, piecework is forbidden, etc., etc. In insisting upon tht right to employ without discrimination and in refusing to surrender control of their work to an organization of this kind, the Iron League of Philadelphia asks the support of all right-thinking citizens.

Many general contractors and architects are inserting clauses in contracts providing for the closed shop and are acting against the interests of the owner as well as of the entire community.

The sympathetic strike is unlawful. Mr. Gompers, in the System Magazine for April, says, "The sympathetic strike is absolutely against the principles of the American Federation of Labor. It has nothing to do with constructive union labor and is a weapon evolved by anti-trade unionists to pave the way for the general strike with which they hope to destroy the present basis of society."

The symypathetic strike is the curse of the Building industry. Why should it not be eliminated? Why should not all the builders and owners, whether working upon a closed or open-shop basis, stand firmly together against sympathetic strike whenever it shows itself? Can this not be done in Philadelphia?

The following resolutions were unanimously adopted by the Ironi League of Philadelphia, at meeting held April 12, 1920:

"Whereas, the sympathetic strike is unlawful and anti-social and involves unwarranted attack on innocent third parties who have no interest in and no control over the issues involved in the original controversy; and

Whereas, the use of the sympathetic strike in the building industry has increased until it has become a serious menace to legitimate building enterprise and to the welfare of the community; and

Whereas, the President of the American Federation of Labor has publicly stated that "a sympathetic strike is absolutely against the principles of the American Federation of Labor. It has nothing to do with constructive union labor and is a weapon involved by the anti-trade unionists to pave the way for the general strike with which they hope to destroy the present basis of society"; be it

RESOLVED: That the sympathetic strike should be eliminated from the building industry of Philadelphia, and that all those interested in building operations in the city, whether their work be conducted under union agreements or otherwise, should co-operate to prevent and oppose

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sympathetic strikes in the future whenever and wherever they arise. Be it further

RESOLVED: That a systematic effort be made to secure the co-operation of those engaged in the building industry and of other business interests of the city, and also the interest and support of the general public in such movement."

Concurrent with the action of the Iron League, at the special Corporation meeting of the Builders Exchange, held at the Bellevue-Stratford Hotel, May 29th, the members of the Exchange passed a resolution disapproving of the sympathetic strike for any cause whatsoever.

Certainly the sentiment of the public is against strikes in general and unless the journeymen co-operate by keeping on the job the building shortage will not be relieved and rents and prices of houses will not decline, but rather advance and the vicious circle of high cost of living grow larger.

* * *

STABILIZING BUILDING PRICES.

Leading the lumber and building material dealers of Chicago, Edward Hines has started a movement to stabilize the prices of all kinds of building materials in order to cut down the cost of building and to settle the housing and rent questions, both of which have had a discouraging effect on the social and economic life of the city.

Mr. Hines is quite sure that the material men will do their share to bring about the most wonderful construction activity ever experienced, but deprecates the action of the building trades unions whose members are negotiating for a wage increase from $1 to $1.25 an hour. In the opinion of Mr. Hines the question of how great or how limited building operations are going to be this year is up to organized labor.

The Hines Lumber Company, which handles approximately half of the lumber business in Chicago and its suburbs, sent out circulars to 10,000 big users of lumber notifying them that if the present wage in the building trades remains, it guarantees not to raise its prices for at least six months. Other material men have agreed to do likewise.

"There is plenty of money in Chicago to build the homes now needed," said Mr. Hines. "But the movement in the building trades to raise wages to $1.25 an hour has already caused a serious stoppage in building. The banks and the building loan men have started to retrench. Unless something is done there will be no loans and no building.

"First of all, there is no need now for increased wages. We have 5,000 men in the woods, and we have noted a steady drop in the price of meat, flour aind other necessities since January 1. The present wage of $1 an hour is adequate and the men will make much more if they keep it than they would with the increase and the stoppage of building.

"There is talk in the sash door, and interior trim factories of increasing to the same wage as the building trades. This means an increase of 40 per cent. for those men. The men in the planing mills are demanding the same salary also, a raise of 42 per cent. for them. Then the teamsters and the men in the lumber yards, who are now satisfied, would demand more moiney. It would mean that the whole industrial fabric would be disturbed by numberless strikes.

"The labor situation should be settled now for the next two years. If we let things go it will mean that the serious housing question will become almost unbearable. Only by stabilizing prices can rents be regulated and profiteering stopped. Thousands of Chicagoans want to build. But it will take only a little more to stop entirely all building loans."

William Schlake, president of the Illinois Brick Company, said the price of brick will remain the same for at least six months. Cement men also agreed to co-operate in the stabilizing of prices.

"If the men in the building trades can see that their salvation lies in holding to their present scale," said Mr. Hines, "they will have work the year round. There was never before so much sentiment in favor of building homes and the building situation was never before so critical as at present.

—*Manufacturers News.*

* * *

J. KISTERBOCK & SON CHANGES OWNERS.

James J. Quigley & Son, 1342 Ridge avenue, Philadelphia, Pa., have purchased the business formerly conducted by J. Kisterbock & Son at 2002 Market street. The Quigley firm has been doing a general business in heating, ranges, roofing and metal work, and by the deal referred to it comes into possession of the entire stock of warm-air heating, range and fireplace equipment, as well as the patterns of the Kitsterbock concern.

The business will be conducted in the future from the Ridge avenue address and J. Regan, who has been connected with the house of Kisterbock for many years as general superintendent will be associated with James J. Quigley & Son, as will the skilled workmen who have been working with him.

* * *

BOARD TO SETTLE DISPUTES

WILL DISTRIBUTE WORK AMONG BUILDING TRADE UNIONS.

The National Board of Jurisdictional Awards will meet in Washington on Monday, Tuesday and Wednesday of this week to take up some of the many questions that are now in dispute among the building trades. This consists in distributing the work to the unions, which, in the judgment of the board, are logically the ones to do it. As an instance, one of the questions now in dispute is who shall put the asbestos covering on boilers, the plasterers or the asbestos workers?

Many similar cases are always in dispute, and the national board has been appointed to take care and settle the same. Coloned John R. Wiggins, the only representative from Philadelphia, will attend the three-days' session.

NO LIEN CONTRACTS (PHILADELPHIA)

Date.	Contractor.	Owner.	Building.	Location.
4/24	E. E. Hollenback	H. W. Butterworth	Alt. and Add.	York, west of Gaul St.
4/26	D. W. O'Dea	Rev. D. J. Dougherty	Alt. and Add.	S. W. Cor. Lehigh Ave. and Potter St.
4/26	M. Brownstein	M. Gottfried	Alt. and Repairs	125North Second St.
4/26	Frank & Kaiser	N. Einhorn	Alt. and Repairs	429 South St.
4/28	E. A. Atkins	Hardwick & Magee	Excatvating Foundations	Seventh and Lehigh Ave.
4/29	All Con. and Mat. Men	Carson Brothers	12 Houses	Lincoln Drive and Allen Lane
4/29	Cates & Shepard	Joseph E. Frechie & Co.	Electrical Work	27 North Seventh St.
4/29	N. Alterelli	Rose Cohen	Alt. and Add.	820 South Eighth St.
4/29	Steel & Wike Co.	Hardwick & Magee	Iron Work	Seventh and Lehigh Ave.
4/29	M. Dolinsky	Penna. Fire Ins. Co.	Remodel	508 and 10 Walnut St.
4/30	Globe Automatic Sprinkler	Levick & Waldow	Sprinkler System	Erie Ave., west of Ambler St.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (3), Oak Lane, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Herbert E. Brooks, Seventh and Chelten avenue, Oak Lane, Philadelphia. Hollow tile and stucco, 2½ stories, (1) 36x31 feet, (2) 28x40 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile and marble work, (1) Spanish tile roof. Plans completed for one. Plans in progress for two.

Sales and Service Building, Broad and Thompson streets, Philadelphia. Architects, not yet selected. Owners, Nash Agency, care of C. B. Pieronet, 342 North Broad street, Philadelphia. Brick, concrete and steel, 8 stories. Details undecided. Work contemplated.

Bridge, South street, over Schuylkill River, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of John C. Winston, Director, Room 746, City Hall, Philadelphia. Owners will receive bids due May 28th at noon, Room 216, City Hall. Plans will be ready for bidders May 1st.

Garage, Sixty-ninth and Lawnton avenue, Oak Lane, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, C. H. Jacobs, on premises. Hollow tile and stucco, 2 stories, 20x25 feet. Plans in progress. Architect will be ready for bids in two weeks.

Store (alts.), 1505 West Susquehanna avenue, Philadelphia. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Max Staub, care of architects. Lowering first floor, stone and brick work, plastering, electric lighting, steel work, painting, flush bulks. Architects will be ready for bids in a few days.

Store (alts.), Northwest Corner Twelfth and South streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owner, United Cigar Co., 44 West Eighteenth street, New York City. Marble and tile work, plate glass, plastering, metal lath, electric work, brick work, painting. Owners taking bids.

Building (remodeling), 5425 Germantown avenue, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owner, Masonic Hall Association, on premises. Reinforcing walls, steel work, maple floors, steam heat, electric light, tile work, new windows, metal ceilings, flush bulks. Architect taking bids due May 10th. George C. Fossell, 5606 Utah street; Wilmer W. Kohl, 101 East Washington lane; R. M. Peterson, 5115 Germantown avenue; Pringle Borthwick, 8018 Germantown avenue; A. P. Fraim, 319 Market street; Frank G. English, 1610 North Carlisle street; John R. Wiggins & Co., Otis Building, and Ketcham & McQuade, 1029 Brown street, are figuring.

Store and Apartments (alts.), 926 West Girard avenue, Philadelphia. Architects, Fuller & Brooks, 1537 Chestnut street, Philadelphia. Owner, B. Goodis, on premises. Carpentry, mill work, tin or slag roof, plumbing, hot water heat, electric work, plastering. Architect taking bids due as soon as possible. Robbins Cont. Co., 1137 North Front street; B. C. Sagel, 3110 Page street, and Gold & Rosenberg, care of architects, are figuring.

Residences (4), Rockland and Fairhill streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Donahue, 4920 North Fifth street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, oak floors, hot water heating, electric lighting, tile and marble work. Owners will be ready for sub-bids in a few days.

Residences (2) **(alts.),** 2444 North Broad street, Philadelphia. Architect, Carl P. Berger, Penn Square Building, Philadelphia. Owner, Charles Grakelow, Broad and Cumberland streets, Philadelphia. Brick work, cut stone, iron work, roof repairs, carpentry, mill work, metal lath, metal ceiling, plastering, tile work, repairs to hot water heating and electric work, painting and glazing, plastering. Architect has received bids.

Stores and Garage, Point Breeze avenue, below Oakford street, Philadelphia. Architects, Pollock & Rust, 1802 Chestnut street, Philadelphia. Owners, Lawrence & Son, 1226 Point Breeze avenue, Philadelphia. Brick, 1 story, 33x200 feet, slag roof, cement floors, concrete foundations, steam heating, electric lighting, flush bulks. Plans in progress.

Residence (alts.), 208 North Thirty-fourth street, Philadelphia, $4,000. Architect, Hoffman-Henon Co., Finance Building, Philadelphia. Owner, Dr. John G. Fuller, on premises. Repairs to roof, metal work, carpentry, mill work, plastering, electric work, painting, glazing, plumbing and heating. Owner will build.

Store and Dwelling, 913 Catharine street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. Brick, 3 stories, 16x50 feet, slag roof, pine floors, stone foundations, hot air heat, electric lighting, flush bulks. Owner will be ready for bids in a few days.

Convent Building, Southwest Corner Diamond and Mascher streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, St. Bonifacius' Roman Catholic Church, on premises. Brick and stone, 2 stories, L shaped, 57x90 feet, concrete and tile roof, marblelite, oak and concrete floors, stone foundations, hot water heat, electric lighting, tile and marble work. Architect will take sub-bids in one week.

Factory (alts.), Bridesburg, Philadelphia. Architect, M. Ward Easby, Inc., 1420 Chestnut street, Philadelphia (engineers). Owner, Ajax Metal Co., care of Thomas C. Nowlds, 46 Richmond street, Philadelphia. Raising tower, concrete foundations, steel frame and general alterations to entire building to accommodate new machinery. Engineer is taking sub-bids.

Mill Building, Twenty-first and Lippincott streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Glen Knitting Co., Second and Westmoreland streets. Brick and concrete, 5 stories, 145x160 feet, slag roof, maple floors, metal lath, stone foundations, terrazzo work, rolled steel sash and skylights, fire doors, iron work, elevators, damp and waterproofing. Architect has received bids.

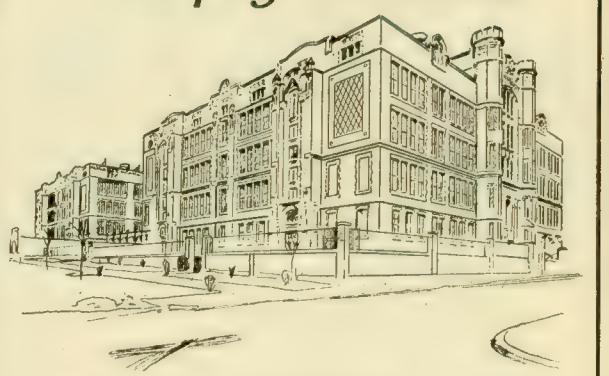
Garage, 8 Asbury avenue, Oak Lane, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Brick and stucco, 2 stories, 20x25 feet. Details undecided. Plans in progress.

Residence (alts. and add.), Northeast Corner Thirty-sixth and Baring streets. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Harold C. Krauskopf, Fifth and Passyunk avenue, Philadelphia. General interior alterations. Plans in progress.

Store and Warehouse (alts.), 633-35 North Second street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, M. Wildstein, premises. Removing walls, new partitions, building, 4 stories, 24x60 feet, plate glass, interior alterations. Architects will be ready for bids in a week.

Residence and Stores (alts.), 3718 North Broad street, Philadelphia. Architect, Carl P. Berger, Penn Square Building, Philadelphia. Owner, Charles Grakelow, Broad and

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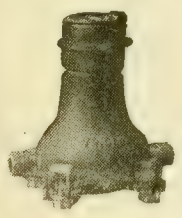
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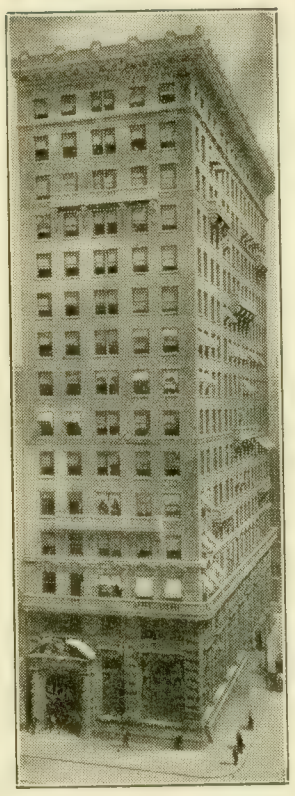
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Cumberland streets, Philadelphia. Stone work, brick work, iron work, roof repairs, carpentry, mill work, painting, glazing, tile work, electric work, hardwood floors, heating repairs. Architect has received bids.

Garage, 6448 North Thirteenth street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Samuel J. Lyons, 2252 North Front street, Philadelphia. Brick, 1 story, 20x20 feet, slag roof, stone foundations, hot water heat, electric light, iron work, cement and pine floors. Architect ready for bids.

Store (alts.), 2252 North Front street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Samuel J. Lyons, on premises. Brick, 2 stories, stone foundations, general alterations. Plans completed. Architect ready for bids.

Residences (add.), 7222 Lincoln Drive, Philadelphia, $14,000. Architect, private plans. Owner, G. W. Carson, on premises. Stone, 2 stories, 17x21 feet, and 1 story, 17x10 feet, slate roof. Owner will build.

Stores and Dwellings (7), Dwellings (21), American street, Third street and Philip street, below Lehigh avenue, $108,500. Architect, private plans. Owner, Abram Berman, 2123 South Fourth street, Philadelphia. Brick, 2 stories, 15½x40½ feet and 14x24 feet, 11½x10½ feet, slag roof, hot air heat, electric lighting, pine floors. Owner will build.

Building (alts. and add.), 223 North Twenty-first st., Philadelphia. Architect, oJhn T. Windrim, Commonwealth Building, Philadelphia. Owner, Municipal Court, on premises. Brick and steel, 2 stories, 24x32 feet, tin roof, pine floors, stone foundations, iron work (heating and electric work reserved). Owners have received bids.

Building, 934 Arch street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owners, Gittelman's Sons, 916 Arch street, Philadelphia. Brick, terra cotta, steel and concrete, 3 stories, 145x20 feet, slag roof, maple floors, metal lath, roof ventilators, waterproofing, dampproofing, ornamental iron wrk, stone foundations, tile and marble work, rolled steel sash, ornamental iron work (elevators, plumbing, heating and electric work reserved). Architect has received bids.

Mill Building, Emerald street and Allegheny avenue, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Kroust & Fite, on premises. Brick, concrete and steel, 5 stories, 129x59 feet, built-up roof, cement and maple floors, metal lath, waterproofing, iron work, rolled steel sash, fire and kalamein doors, concrete foundations. Architect has received bids.

Residence (alts. and add.), 4050 Parkside avenue, Philadelphia. Architects, Greisler-Abramson Co., Lafayette Building, Philadelphia. Owner, Harry Lieberman, on premises. Carpentry, mill work, metal lath, painting, tile and marble work, plumbing, electric work, new slag roof. Architects have received bids.

Residence, Montour street, North of Bleigh street, Philadelphia, $5,200. Architects, private plans. Owner, Robert J. Schaeffer, 1818 Frankford avenue, Philadelphia. Frame, 2 stories, 16x42 feet, slag roof, pipeless heating, electric lighting. Owner will build.

Dwelling (alts. and add.), 308 High street, Philadelphia, $5,000. Architect, private plans. Owner, Frederick C. L. Green, on premises. General interior alterations and addition. Owner will build.

Cold Storage Building (alts.), 1224-26 Frankford avenue, $4,000. Architect, private plans. Owner, H. Loeb, Thirty-third and Master streets, Philadelphia. General alterations. Owner will build.

Twin Residence, Sixty-ninth and Market streets, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Robert Killough, Wayne and Duval streets, Philadelphia. Stone and stucco, 2½ stories, 22x30 feet, slate roof, oak and pine floors, stone foundations, hot water heat, electric lighting. Owner will build.

Residences (4), McCallum street and Hortter street, Philadelphia, $56,000. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Robert Killough, Wayne and Duval streets, Philadelphia. Brick, 2 stories, 13½x10 feet, 16½x38½ feet ,13x10 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Owner will build.

Residences (28), Fisher's avenue and Eighth street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Williamson & Messenger, 1208 Ridge avenue, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Owners are ready for sub-bids.

Church and Sunday School (add.), Tenth and Northeast Boulevard, Philadelphia. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, First Christian Church, on premises. Stone, 1½ stories, 50x90 feet, slate roof, pine floors, stone foundations, steam heating, electric lighting, kalamein doors, hardware, painting, glazing, mill work, carpentry. Architects have received bids.

Store (alts. and add.), 5817 Germantown avenue, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. New store front, brick work, plate glass, painting, glazing, hardware, iron work. Plans in progress.

Residences (4), 927-29-31-35 Herbert street. Philadelphia, $40,000. Architect, private plans. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 16½x51 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile and marble work. Owner will build.

Music Room, Store, Eighth and Market streets, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. Carpentry, mill work, metal lath, plastering, composition floors, repairs to heating, electric work, new partitions. Architects taking bids due May 15th. Ketcham & McQuade, 1029 Brown street, and P. M. Sax, Franklin Bank Building, Philadelphia, are figuring.

Office Building, Seventeenth street, Cherry street and Parkway, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Sun Oil Co., Chester, Pa. Brick, steel, stone and concrete, 12 stories, 60x90 feet, slag roof, concrete floors, metal lath, elevators, steam heat, electric lighting. Arhcitect is taking bids. George A. Fuller Co., Widener Building, is figuring.

Entrance from Subway to 1309 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Truly Warner, 1309 Market street, Philadelphia. Metal lath, plastering, safety

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9 Factory Building "S," Manhattan Rubber Mfg. Co. Passaic, N. J.
10 Riverside Power Station, Minneapolis General Electric Co.
11 Power Station, Tampa Electric Co., Tampa, Fla.
12 Lincoln Wharf Power Station Extension, Boston Elevated Ry. Co.
13 Warehouse, General Fireproofing Co., Youngstown, Ohio.
14 Roslindale Sub-station, Boston Elevated Ry. Co.
15 Power Station Extension, Dallas Electric Light and Power Co.
16 River Power Station, Buffalo General Electric Co.
17 Steam Power Station, Remington Arms and Ammunition Co., Bridgeport, Conn.
18 Factory and Boiler House, Westinghouse Lamp Co., Trenton, N. J.
19 Steam Power Station, Lowell Electric Light Corp., Lowell, Mass.
20 Factory Building, The Celluloid Co., Newark, N. J.
21 Factory Building, Roessler & Hasslacher Chem. Co., Perth Amboy, N. J.
22 Sub-station, Hartford Electric Light Co., Hartford, Conn.
23 Charlestown Power Station Extension, Boston Elevated Ry. Co.

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treads, concrete work, tile work, kalamein doors. Architect taking bids due May 6th. Kober Const. Co., Middle City Building; Smith-Hardican Co., 1606 Cherry street, and F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Residences (2), Forty-sixth and Forty-seventh and Osage avenue, Philadelphia, $38,000. Architect, private plans. Owner, C. R. Sigel, Forty-seventh and Larchwood avenue, Philadelphia. Brick, 3 stories, 25x45x16x6 feet, and 3 stories, 27x46 feet, slate roof, hot water heating, electric lighting, tile and marble work, hardwood floors, cement work. Owner will build.

Residence, Fifth street, South of Sixty-seventh avenue, Philadelphia, $6,500. Architect, private plans. Owner, Walter H. Ketley, 246 Grange avenue, Philadelphia. Stone, 1 story, 37x43 feet, slag roof, hot water heating, electric lighting. Owner will build.

Building (additional alts.), 109 Arch street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, William Hodges & Co., 9 South Second street, Philadelphia. Three new windows, tile work, painting, plastering. Architect has received bids.

Market House (alts. and add.), 345-47 S. Front street, Philadelphia. Architects, Neubauer & Supovitz, 929 Chestnut street, Philadelphia. Owners, Levit & Woorman, on premises. General alterations and additions. Architects ready for bids.

Stores and Dwellings (2), N. E. Cor. Ninth and Snyder avenue, Philadelphia. Architects, Neubauer & Supovitz, 929 Chestnut street, Philadelphia. Owner, L. Cohen, care of architects. Brick, 1 and 2 stories, 33x68 feet, slag roof, pine floors, cement work, stone foundations, hot water heating, electric lighting. Architects are ready for bids.

Public Garage, 5136 Irving street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, John Dougherty, care of Mr. O'Neill, 3208 Walnut street, Philadelphia. Brick, 1 story, 20x120 feet, slag roof, cement floors, steam heat, electric lighting, structural steel. Owner is taking sub-bids.

Stores and Apartments (3), Girard avenue, between Thirty-ninth and Fortieth streets, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owners, Lipschutz & Sax, 816 South street, Philadelphia. Brick, 2 stories, 18x90 feet, slag and tile roof, hardwood floors, metal lath, metal ceilings, waterproofing, stone foundations, hot water heating, electric lighting, tile and marble work, hollow metal skylights, plumbing, mill work. Owners will be ready for sub-bids in a few days.

Buiding (alts. and add.), 223 North Twenty-first street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Municipal Court, on premises. Brick and steel, 2 stories, 24x32 feet, tin roof, pine floors, stone foundations, iron work (heating and electric work reserved). Lowest bidders, Mitchell Bros., 2125 Race street, $19,498.

Elevator Hatch, Second street, North of Columbia avenue, Philadelphia, $5,000. Architect, private plans. Owners, Arrott S. T. Mills Co., Southeast Corner Jefferson and Marshall streets. Brick, 7½x7½ feet. Owner will build.

Tank Support, Ontario street, East of Delaware avenue, $5,000. Architect, M. Ward Easby, Crozer Building, Philadelphia. Owners, Ajax Metal Co., 46 Richmond street, Philadelphia. Steel work. Engineers will build.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Mascher and Lippincott street, on Clearfield street, $250,000. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owners, Standard Crown Co., Hope and Palmer streets, Philadelphia. Precast Products concrete, 2 stories, 63½x210 feet, wing 16x36 feet, concrete and composition roof, concrete floors, concrete foundations, vapor heating, electric lighting, rolled steel sash, ventilators. Contract awarded to Alex. Chambley, Twenty-first and Summer streets, Philadelphia.

Warehouse (add.), Blabon and P. and R. R. R., Philadelphia, $32,000. Architect, private plans. Owner, George W. Blabon, on premises. Brick, fourth and fifth story additions, irregular in size, slag roof, steam heating, electric lighting, cement floors, steel sash and skylights, ventilators. Contract awarded to William Steel & Sons Co., 1600 Arch street, Philadelphia.

Residences (2) **(alts. and renovation),** 202-04 Chestnut Hill avenue, Philadelphia. Architects, Dreher, Churchman, Paul & Ford, 1424 Walnut street, Philadelphia. Owner, Mrs. Norton Downs, Chestnut Hill, Philadelphia. Mill work, brick work, plastering, 1 story, 30x18 feet, tin roof, hot air heat, electric light, plumbing, stone foundations. Contract awarded to F. T. Mercer, 1706 Delancey street, Philadelphia.

Residence (alts. and add.), Chestnut Hill, Philadelphia. Architects, Willing & Sims, 1627 Sansom street, Philadelphia. Owner, Hamilton Disston, 315 Rex street, Chestnut Hill, Philadelphia. Brick and cement work, carpentry, mill work, plastering. Contract awarded to E. Allen Reeves, Abington, Pa.

Convent Building, Chester avenue near Fifty-sixth street, Philadelphia. Architect, private plans. Owner, Roman Catholic Church of the Blessed Sacrament, care of Rev. James F. Higgins, Chester avenue and Frazier street, Philadelphia. Stone, 3 story. Details undecided. Contract awarded to Timothy Gallagher, Southeast Corner Fifty-fifth and Springfield avenue, Philadelphia.

Car Barn (alts.), Germantown avenue, Phillena to Musgrave streets, Germantown, $75,000. Architect, private plans. Owners, P. R. T. Co., 810 Dauphin street, Philadelphia. General interior and exterior alterations. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Business Building (alts. and add.), 104-06 South Thirteenth street, Philadelphia, $20,000. Architect, private plans. Owner, Dr. Reed Shoe Co., on premises. Brick and steel, 2 stories, 16x10 feet, second and third story add., 16x40 feet, slag roof, electric work, hardwood floors. Contract awarded to T. F. Bennett, 1724 Sansom street, Philadelphia.

Chapel (alts. and add.), 529 East Washington lane, Philadelphia. Architect, Ellery K. Taylor, 1627 Sansom street, Philadelphia. Owners, East Washington Presbyterian Chapel, on premises. Brick and steel, 2 stories, 22x28 feet, slag roof, pine floors, stone foundations, metal lath, iron work. Contract awarded to L. W. Kitselman, 125 East Upsal

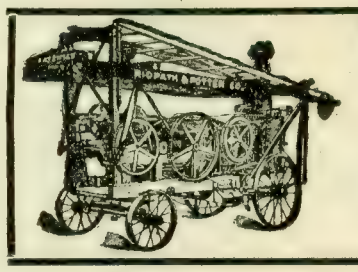


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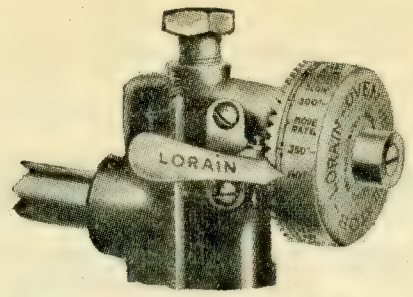
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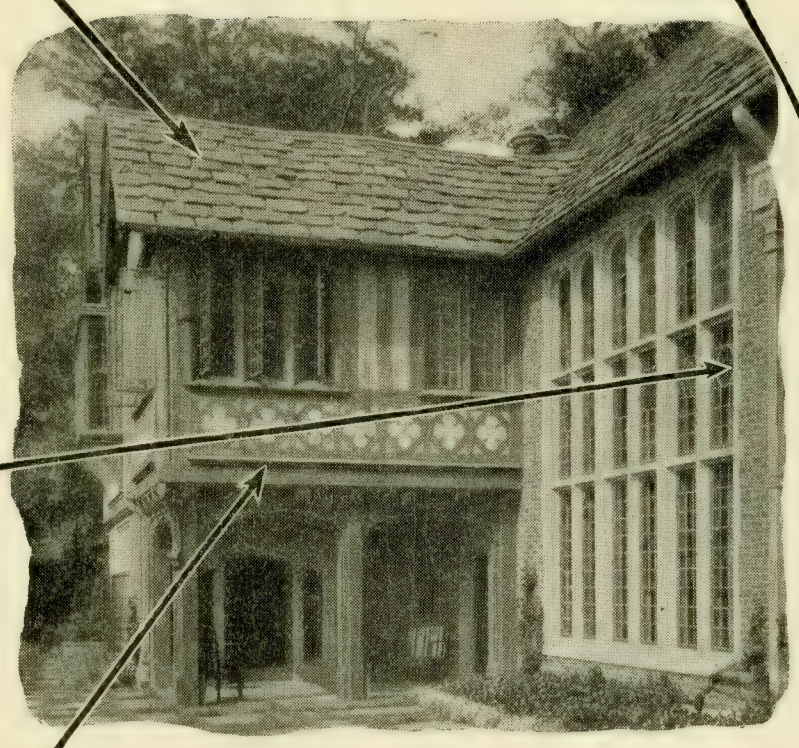


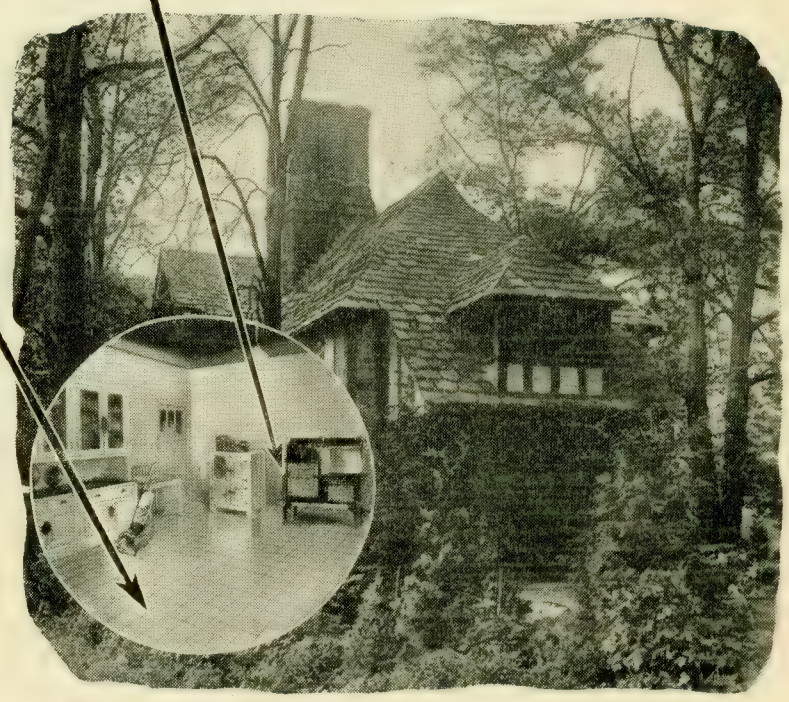
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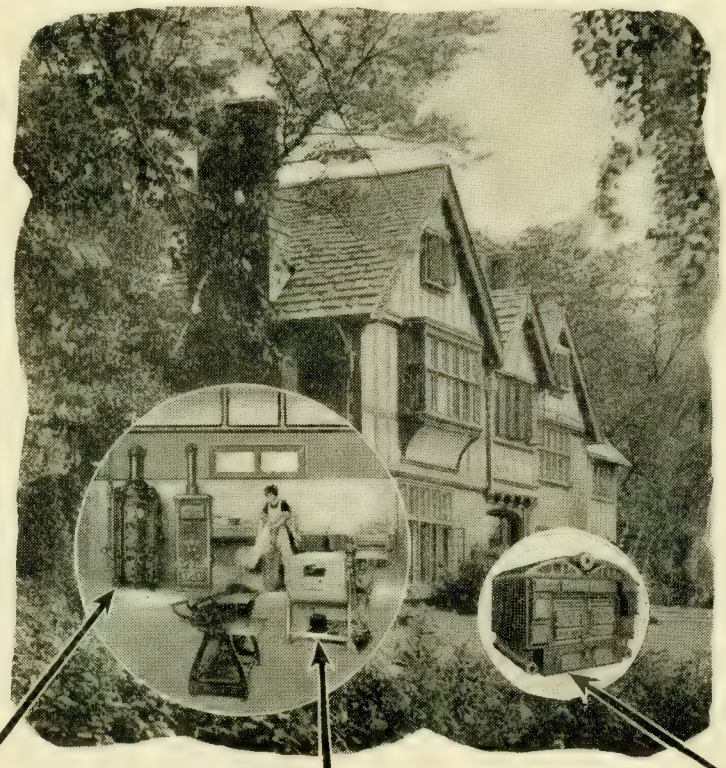
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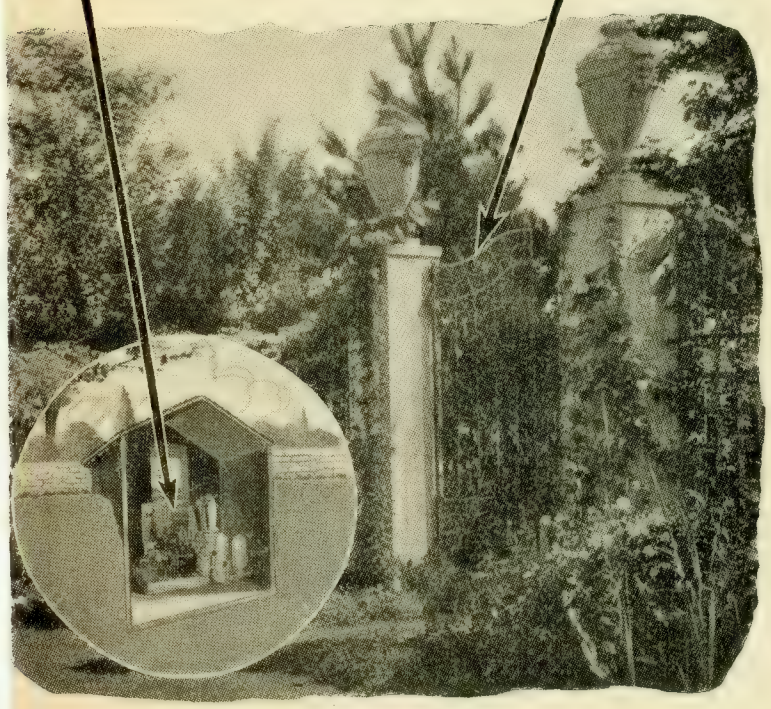
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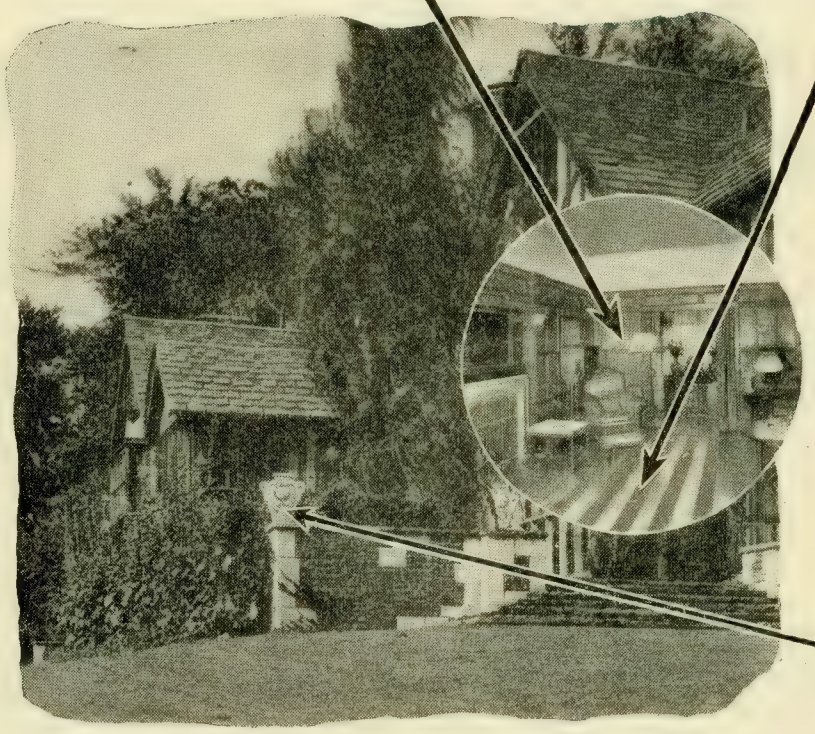
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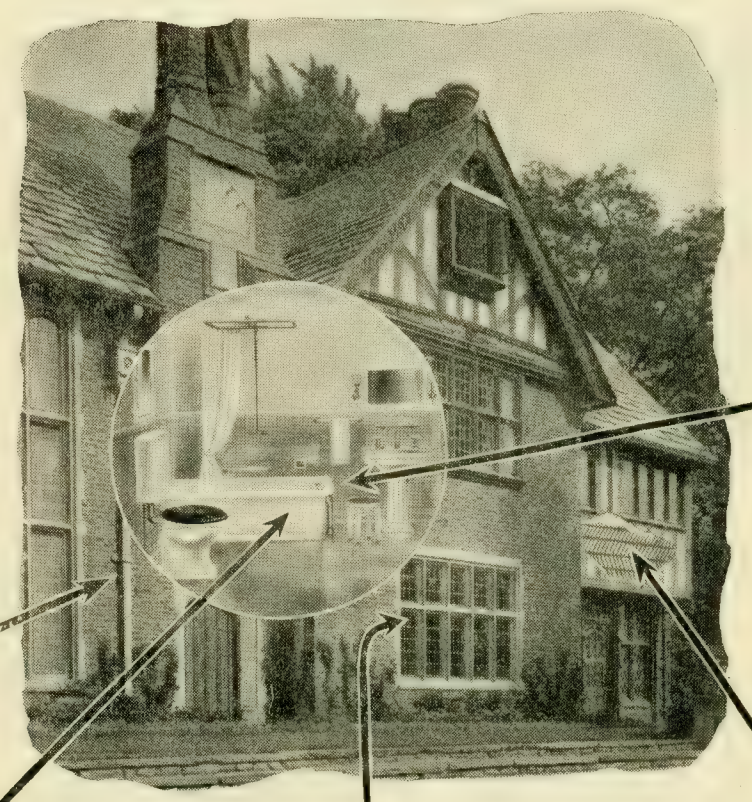


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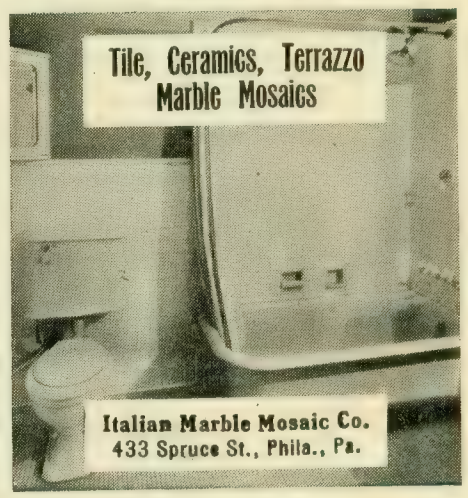
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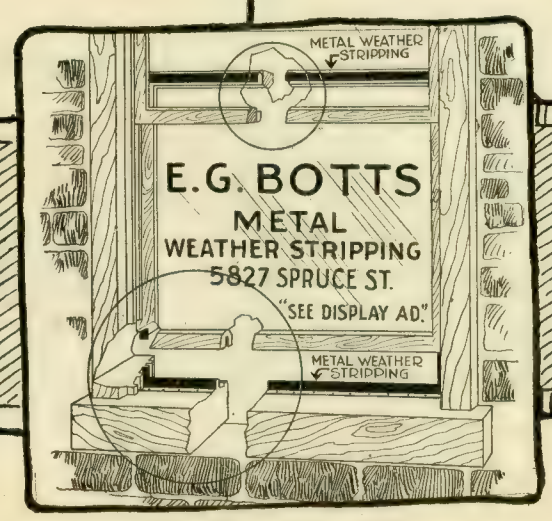
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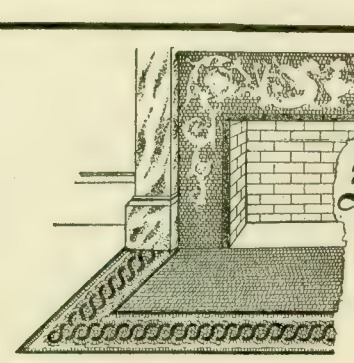
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Residence (alts. and add.), Sedgwick street, East of Lincoln Drive. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, John S. Adelhelm, on premises. Stone and brick, 1 story, 12x16 feet, slate roof, pine floors, hot water heat, electric light. Contract awarded to I. A. Dunkelberger, 71 East Herman street, Philadelphia.

Rebuilding Bridges, Nos. 11-12-13, Merkle, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owner, P. & R. R. R. Co., Reading Terminal, Philadelphia. Concrete and steel, reinforcing rods, metal caging, gas pipe rail. Contract awarded to Fehr & O'Rourke, Reading, Pa.

Factory, 5632 Summer street, Philadelphia, $40,000. Architect, private plans. Owners, Mineral Vault Casket Co., on premises. Brick, 2 stories, 100x65 feet, slag roof, cement floors. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

Store and Dwelling, 2127 Germantown avenue, Philadelphia. Architect, private plans. Owner, Herman Lovitt, 2127 Germantown avenue, Philadelphia. General alterations, flush bulks, electric lighting. Contract awarded to F. K. Stahl, 2713 North Park avenue, Philadelphia.

Residence (alts.) to Convalescent Home, Torresdale, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Federation of Jewish Charities, Empire Building, Philadelphia. Carpentry, mill work, painting, glazing, plastering, metal lath (plumbing and heating separate bids). Contract awarded to D. Henwood, 717 South Sixty-third street, Philadelphia.

Factory, Westmoreland near Salmon street, Philadelphia, $6,000. Architect, Frederick Wurster, 6145 Webster street, Philadelphia. Owner, the Monarch Machine Works, 3129 Emery street, Philadelphia. Brick, 1 story, 34x40 feet, slag roof, cement floors, stone foundations, rolled steel sash, electric lighting, ornamental iron work. Contract awarded to A. E. Barnes & Co., Twentieth and Pacific streets, Philadelphia.

Factory, Holmesburg, Philadelphia. Architect, private plans. Owners, Robertson Lubricants Co., Bulletin Building, Philadelphia. Brick, 1 story, 13x61 feet, slag roof, rolled steel sash. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Store and Dwelling (fire repairs), Southeast Corner Ninth and Montrose streets, $6,400. Architect, private plans. Owner, Anthony P. Guinta, 1030 South Ninth street, Philadelphia. General interior alterations, electric lighting. Contract awarded to Cerasoli & Scurci, 1709 South Eleventh street, Philadelphia.

Railroad Station (alts.), Chestnut Street Wharf, Philadelphia, $10,000. Architect, private plans. Owners, P. & R. R. R. Co., Reading Terminal, Philadelphia. Carpentry, mill work, painting, glazing, wire work, hardware. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Brewery (fire repairs), 1740 North Marvine street, Philadelphia, $25,000. Architect, private plans. Owners, Rising Sun Brewing Co., 1739 Marvine street, Philadelphia. General restoration. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Offices and Residence (alts.), Northwest Corner Seventeenth and Erie avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Dr. Leslie M. Craver, on premises. Brick, 3

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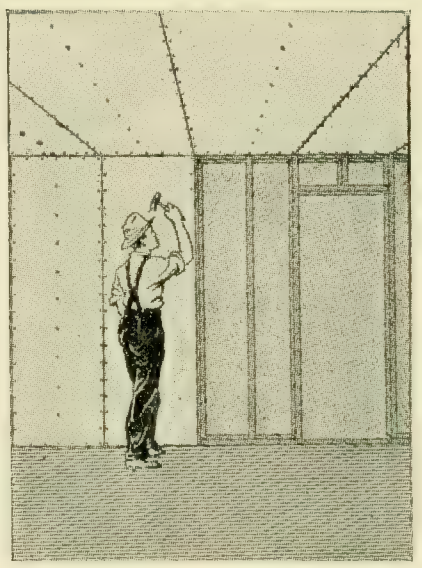
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Shop (add.), Seventeenth and Lippincott streets, Philadelphia, $35,000. Architect, private plans. Owner, Harrison Safety Boiler Co., Seventeenth and Allegheny avenue, Philadelphia. Brick and iron, 1 story, 44½x113 feet, slag roof. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Factory (fire repairs), 306-08 Cherry street, Philadelphia, 312,000. Architect, private plans. Owner, Charles E. Schmidt, 317 Arch street, Philadelphia. General restoration. Contract awarded to H. C. Dahl, 231 South Eighth street, Philadelphia.

Warehouse (fire repairs), 110 Tasker street, Philadelphia, $7,800. Architect, private plans. Owners, Atmore Bros., on premises. General interior alterations. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Residence (alts. and add.), 2214 Delancey street, Philadelphia, $20,000. Architect, W. H. Winterstein, 2222 Delancey street, Philadelphia. Brick, 3 stories, 13x8 feet, slag roof, steam heating, electric lighting, oak floors, tile and marble work, iron work, plastering, plumbing. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street, Philadelphia.

Dwellings (2), 5022-24 Paul street, Philadelphia, $16,000. Architect, private plans. Owner, Elizabeth Osbourne, 5017 Duffield street, Philadelphia. Brick, 2 stories, 16x44½ feet, 16x12 feet, slag roof, hot water heat, electric lighting. Contract awarded to George R. Osborne & Son, 5017 Duffield street, Philadelphia.

Store and Dwelling (alts.), 943 North Eighth street, Philadelphia, $3,500. Architect, private plans. Owner, John T. Peters, 735 West Girard avenue, Philadelphia. General alterations, flush bulks, electric work. Contract awarded to Sanders & Hemple, 4411 Sansom street, Philadelphia.

Stores and Dwellings (4) **(alts. and add.)**, 2411-13-15-17 South Seventh street, $1,200 each. Architect, private plans. Owner, Dr. S. Shahan, Southeast Corner Ninth and Snyder avenue, Philadelphia. Brick, 1 story, 12½x10 feet, slag roof. Contract awarded to Louis Glass, 245 Greenwich street, Philadelphia.

Dwelling, Northwest Corner Fifth and Erie avenue, Philadelphia, $5,000. Architect, private plans. Owner, Anna Carmichael Presbyterian Church, on premises. Brick, 2 stories, 16½x53 feet, slag roof, hot water heating, electric lighting. Contract awarded to J. D. Fotheringham, 1000 Arrott street, Philadelphia.

Manufacturing Building, Fifth and Cayuga streets, Philadelphia, $70,000. Architect, private plans. Owners, American Card Clothing Co., American and Dauphin streets. Brick and steel, 3 stories, 98x66 feet, slag roof, maple floors, elevator, steam heating, electric lighting, rolled steel sash, kalamein doors, roof ventilators, kalamein doors, iron work. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia, who are taking subbids.

Stores (alts. and add.), 30-32-34 South Second street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owners, Philip J. Walsh's, on premises. Brick, 3 stories, 11x46 feet, slag roof, pine and parquetry floors, stone foundations, electric lighting, hollow metal skylights, metal ceilings, dampproofing, iron work, metal lath. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Store, Factory and Office (alts.), Northwest Corner Seventh and Chestnut streets, $15,000. Architect, private plans. Owners, Fotteral Estate, Commercial Trust Building, Philadelphia. General alterations. Contract awarded to George Pickel, 2631 South Sartain street, Philadelphia.

Factory, Southwest Corner Twenty-third and Westmoreland streets, Philadelphia. Architects, private plans. Owners, Sharpless Specialty Co., on premises. Brick, 1 story, 21½x40 feet, slag roof, cement floors, electric light. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Store (add.), 2736 Germantown avenue, Philadelphia, $5,000. Architect, private plans. Owner, Charles E. Hallahan, on premises. Brick, 2 stories, 16x10½ feet, slag roof. Contract awarded to William E. Hale, 1636 Ludlow street, Philadelphia.

Store and Dwelling (alts.), 2740 Germantown avenue, $3,550. Architect, private plans. Owner, B. Greenfield, 2808 Germantown avenue, Philadelphia. General alterations. Contract awarded to Max Seigel, 1837 North Franklin street, Philadelphia.

Office (alts.), 1827 Arch street, Philadelphia, $5,000. Architect, private plans. Owners, Cosmopolitan Ins. Co., 20th and Spring Garden streets, Philadelphia. General alterations. Contract awarded to William E. Hale, 1636 Ludlow street, Philadelphia.

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School Building, Barren Hill, Whitemarsh Township, Montgomery County, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Whitemarsh Township School Board, No. 7 Main street, Norristown, Pa. Brick and terra cotta, 1½ stories, 38x100 feet, wing 63x55 feet, slate and slag roof, pine floors, metal lath, roof ventilators, stone foundations, metal doors, fire escapes, iron stairs, ornamental iron work (heating, plumbing, electric work and tile work reserved). Owners taking bids due May 10th. William H. Eddleman & Son, 453 Green lane, Roxborough, Pa., and Tourison & Tourison, 1011 Chestnut street, are figuring.

Residence, Glenside, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Isabelle Oliver, care of architect. Hollow tile and plaster, 2½ stories, 28x56 feet, shingle roof, stone foundations, hot water heat, electric lighting, tile and marble work. Architect taking bids. Albert Zellfelder, 151 South Broad street, and S. M. Fesmire, Glenside, Pa., are figuring.

Gate Lodge and Gateway, Elkins Park, Pa. Architects, Walker & Gillette, 128 East Thirty-seventh street, New York City. Owner, F. E. Dixon, Elkins Park, Pa. Stone, stucco and steel, 1½ stories, 28x51 feet, slate roof, pine floors, metal lath, hot water heat, electric lighting, tile and marble work, metal weather strips, iron work. Architect has received bids.

Twin Residences, South Ardmore, Pa. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Mrs. Agnes A. Perrot, 329 South Broad street, Philadelphia. Frame, 2½ stories, 16x38 feet, slate roof, oak and pine floors, metal lath, stone foundations, hot water heat, electric lighting. Architect taking preliminary bid from T. S. Fetter, 1829 Filbert street.

Moving Picture Theatre, Easton, Pa., $25,000. Architects, Tunis & Genther, Real Estate Trust Building, Philadelphia. Owner, name withheld. Brick, 1 story and basement, 50x110 feet, slag roof. Preliminary plans in progress. Architects will be ready for bids in two weeks.

Bungalow, Secane, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, H. Rosenbluth, care of architect. Brick and stucco, 1½ stories, slate roof, hardwood floors, stone foundations, hot water heat, electric light, tile and marble work. Owner will be ready for sub-bids in a week.

Residence (alts. and add.), Haverford, Pa. Architect, H. Brognard Okie, Crozer Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, add. 25x30 feet, slate roof, oak floors, stone foundations, hot water heating, electric lighting and general interior alterations. Plans in progress.

Apartment House, Drexel Hill, Pa. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, name withheld. Stone and plaster, 3 stories, 180x280 feet. Sketches in progress. Too early for details.

Residence, Berwyn, Pa. Architects, Hance, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, S. Alfred Ritner, Berwyn, Pa. Frame and stucco, 2½ stories, 28x40 feet, shingle roof, oak floors, hot water heating, electric lighting, tile work. Architects taking bids. Walter Paschall & Son, Paoli, Pa.; Daniel M. LeFevre, Berwyn, Pa., and George L. Croll, Rosemont, Pa.; C. Nelson Rocholl, 217 Northeast Boulevard; J. H. Feeser, Liberty Building, and T. S. Fetter, 1829 Filbert street, Philadelphia, will figure.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, State Capitol Building, Harrisburg, Pa. Low bidders on road work opened April 27th, 1920:

Crawford County, East and West Fallowfield and Sadsbury Townships and Conneaut Lake Borough, Route 82, length 29,525 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Atlantic Bitulithic Co., Richmond, Va., $435,849.45.

Crawford County, Sadsbury and Vernon Townships, Route 82, length 18,161 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Atlantic Bitulithic Co., Richmond, Va., $232,654.90.

Erie County, LeBeouf and Waterford Townships and Waterford Borough, Route 84, length 35,492 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Warren Bros. Co., Boston, Mass., $509,172.15.

Erie County, Girard Township and Platea

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Borough, Routte 295, length 21,268 feet. One course reinforced concrete. Rosoff Eng. Co., 15 Park Row, New York, $252,515.50.

Huntingdon County, Petersburg Borough, Route 352, length 3,007 feet. One course reinforced concrete. Finn & Son, Inc., Mapleton Depot, Pa., $29,561.65.

Jefferson County, Brookville Borough, Route 64, length 1,684 feet. Vitrified brick. S. Van Shields, Brookville, Pa., $37,429.70.

Lycoming and Tioga Counties, Hamilton, Bloss and Liberty Townships and Liberty Borough, Tioga and Jackson Township, Lycoming County, Route 21, length 72,004 feet. One course reinforced concrete. Porter Bros., Mt. Pocono, Pa., $1,188,025.09.

Schuylkill County, Mahanoy and West Mahanoy and Butler Townships and Shenandoah and Girardville Boroughs, Route 290, length 53,613 feet. Bituminous surface course on a concrete foundation and bituminous macadam on telford or broken stone foundation, and ne curse reinforced concrete and vitrified brick. Frank Gillespie & Benj. Franklin, Jr., Philadelphia, Pa., $770,153.50.

Washington County, Somerset and Nottingham Townships, Route 181, length 16,137 feet. One course reinforced concrete. Thomas Arrigo, Charleroi, Pa., $212,714.00.

York County, West York Borough and West Manchester Township, Route 126, length 4,136 feet. Bituminous surface course on a concrete foundation. Walter S. Souder and John A. Raeyling (General Supply & Const. Co.), York, Pa., $106,317.70.

Office Building, Swedeland, Pa. Architect, Ernest Green, 52 Vanderbilt avenue, New York City. Owners, Rainey Wood & Coke Co., Swedeland, Pa. Reinforced concrete and brick, 2 stories, 89x42 feet, composition roof, concrete and terrazzo floors, marble work, metal lath, waterproofing, ornamental iron work, rolled steel sash, electric lighting, stone foundations. Architect taking bids due May 8th. F. L. Hoover & Son, 1023 Cherry street, Philadelphia, are figuring. Size of garage, 1 story, 73x23 feet; clock house, 1 story, 24x22 feet.

Mill Building, Spring City, Pa. Architect, private plans. Owner, Schuylkill Valley Mills, Spring City, Pa. Reinforced concrete, 3 stories, 90x200 feet, slag roof, monolithic floors, elevators, stone foundations, steam heating, electric lighting, rolled steel sash, fire doors, iron work. Contract awarded to Turner Const. Co., 1713 Sansom street, who are taking subbids.

Locker House, Edge Hill, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, North Hills Country Club, Edge Hill, Pa. Brick, stone and stucco, 2 stories, 55x110 feet, slate roof, composition tile, terrazzo and marble floors, metal lath, ornamental iron work, stone foundations, metal lath. Architect taking bids due May 7th. Standard Const. Co., 1713 Sansom street; Mitchell Bros., 2125 Race street; Albert Zellfelder, 151 South Broad street; A. R. Raff Cont. Co., 1635 Thompson street; J. Sims Wilson Co., 1125 Brown street, and E. Allen Reeves, Abington, Pa., are figuring.

Boiler House and Factory, Collingdale, Pa. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Jobson Chocolate Co., 3833 Lancaster avenue, Philadelphia. Brick, 1 story, 60x143 feet, boiler house, 26x36 feet, composition roof, cement floors, hollow tile, roof ventilators, dampproofing, iron work, rolled steel doors, skylights and sash, stone foundations (heating and lighting reserved). Architects taking bids due May 11th. Ketcham & McQuade, 1029 Brown street, are figuring.

Residences (3), Ridley Park, Pa. Architects, Seeburger & Rabenold, 1424 Chestnut street, Philadelphia. Owner, T. P. Ward, Ridley Park, Pa. Frame, 2 stories, 22x33 feet, shingle roof, pine floors, hot water heat, electric light, tile work (plumbing, heating and electric work reserved). Architect taking bids due May 11th. Pomeroy Const. Co., 1609 Ranstead street; J. F. Kearney, 34 South Seventeenth street, Philadelphia, and J. Howard Roberts, Lansdale, Pa., are figuring.

Memorial Hospital, Old York road, Abington, Pa. Architects, Tilden & Register, Franklin Bank Building, Philadelphia. Owners, Abington Memorial Hospital, Abington, Pa. Preliminary sketches being drawn.

New Jersey Construction News

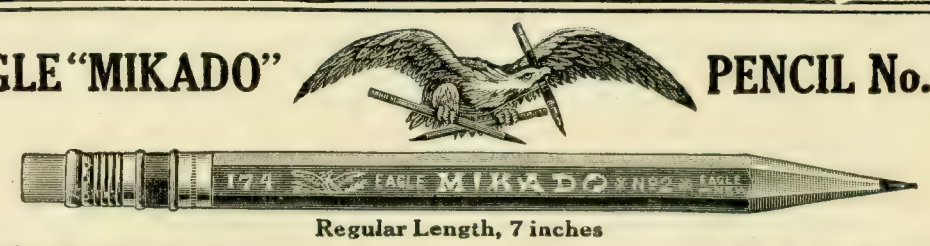
Residence, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, F. Eliott, care of architect. Frame, 2½ stories, 36x36 feet, slate roof, pine floors, hot water heat, electric light, tile work. Architect will be ready for bids next week.

Laundry, Trenton, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owner, State of New Jersey, Girls' Home, care of architect. Brick, 1 story, 81x43 feet, concrete foundations, slate roof, cement floors, steam heat, electric light, roof ventilators, wood tresses. Architect taking bids due May 12th. Standard Const. Co., 1713 Sansom street, Philadelphia; Carl Poinsett, 37 Maple street, Trenton, N. J., are figuring.

Stores (add.), 19-21 East State street, Trenton, N. J., $25,000. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, Sarko Co., on premises Brick, steel, 3 stories, slag roof, maple floors, electric light. Plans in progress.

Garage, West Clinton street, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Trenton Pottery Co., Trenton, N. J. Brick, 1 story, 60x80 feet, stone foundations, slag roof, cement floors, steam heat, electric light, hollow metal sash. Plans in progress.

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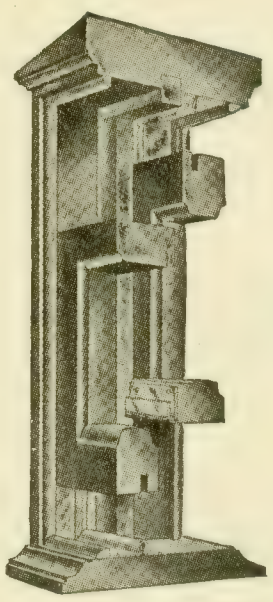
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Residence (alts. and add.), Lambertville, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, name withheld. Brick, 2 stories, 28x70 feet, concrete foundations, Spanish tile roof, hardwood floors, vacuum heat, electric light, tile and marble work, interior and exterior alterations. Plans in progress.

Rectory, Greenwood avenue, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, St. James' Church ,care of Rev. Mr. Rogers, on premises. Brick, frame, 2½ stories, 25x32 feet, stone foundations, slate roof, hot air heat, electric light, hardwood floors, tile work. Owners are taking bids.

Store and Loft Building, Front street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Samuel Krueger, Front street, Trenton, N. J. Brick and limestone, 2 stories, 25x100 feet, stone foundations, slag roof, tile and cement floors, steam heat, electric light, tile and marble work, plate glass. Architect ready for bids this week.

Residence, Trenton, N. J., $45,000. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Charles Maddock, care of Thomas Maddock's Sons, Ewing and Perry streets, Trenton, N. J. Stone, 2½ stories, 36x66 feet, stone foundations, tile roof, hardwood floors, electric light, tile and marble work. Architect will be ready for bids next week.

Office and Laboratory Building and Manufacturing Building, Camden, N. J. Architect, Frank Sutton, 80 Broadway, New York City. Owner, Wilckes, Martin & Wilckes, 135 William street, New York City. Brick and concrete, 3 stories, 75x35 feet, and 2 stories, 63x79 feet, asbestos built-up roof, concrete, maple and tile floors, wire lath, elevator, stone foundations, steam heat, electric light, rolled steel sash, copper skylights, rolled steel and kalamine doors, ornamental iron work. Architect has received bids.

School, Haddon Heights, N. J. Architect, Henry C. Pelton, 35 West Thirty-ninth street, New York City. Owner, Roman Catholic Church of St. Rose, Rev. A. S. Quinlan, Haddon Heights, N. J. Brick, stone and steel, 2 stories, 133x49 feet, slag roof, pine and tile floors, metal lath, stone foundations, electric light, rolled steel sash and skylights, kalamein doors, ornamental iron work. damp-proofing, waterproofing. Architect has received bids.

School, Ocean City, N. J. Architect, Vivian B. Smith, Guardian Trust Building, Atlantic City, N. J. Owner, Ocean City School Board, Ocean City, N. J. Brick, 2 stories and basement, 30 rooms. Plans in progress.

Office Building (alt. and add.), Fifth and Federal streets, Camden, N. J. Architect, Arthur Truscott, Temple Building, Camden, N. J. Owner, Camden Fire Insurance Association, on premises. Brick, concrete, steel, 2 stories and basement, 35x90 feet, slag roof, cement floors, steam heat, electric light (plumbing, heating and electric work reserved). Plans in progress. Consulting architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia.

Apartment House (alt.), 500 Broadway, Camden, N. J. Architect, Arthur Truscott, Temple Building, Camden, N. J. Owner, Lionel C. Simpson, 700 Broadway, Camden, N. J. Brick and frame, 6 baths, 6 garages, slag roof, cement floors, steam heat, electric light, tile work. Owner will build.

Store Building, Broad and Spruce streets, Camden, N. J. Architect, Philip H. Merz, Pennsylvania Building, Philadelphia. Owner, Harry Pinsky & Son Co., 1126 Spruce street, Camden, N. J. Reinforced concrete, 4 stories and basement, 48x144 feet, slag roof. Plans in progress.

Convent, Trenton, N. J. Architect, Henry D. Dagit, 4527 Pine street, Philadelphia. Owner, St. Mary's Cathedral, Trenton, N. J. Stone, 3 stories, 39x100 feet, tin roof, hardwood and reinforced concrete floors, stone foundations, steam heating, electric lighting, tile and marble work. Plans in progress. Architect will be ready for bids in about three weeks.

Residence, Roebling, N. J. Architect, Henry A. Brown, River Bank, Burlington, N. J. Owner, Andy Gazsy, Burlington, N. J. Brick, 2½ stories, 20x46 feet, pressed brick front, slate roof, pine floors, electric lighting. Plans about completed.

Residence, South Orange, N. J. Architect, C. A. Ziegler, Bailey Building, Philadelphia. Owner, S. M. Swenson, South Orange, N. J. Stone, 2½ stories, 35x110 feet, slate roof, oak floors, stone foundations, hot water heat, electric lighting. Architects taking bids due as soon as possible. Ganstony & O'Dell, A. Shields and George Becker & Bro., all of South Orange, N. J., and Leithgow & Co., 79 King street, New York City, are figuring.

Church, Haddon Heights, N. J. Architects, Pollock & Rust, 1802 Chestnut street, Philadelphia. Owners, Haddon Heights Baptist Church, Haddon Heights, N. J. Stone and frame. Preliminary plans in progress.

Residence, Haddonfield, N. J. Architect, Ellery K. Taylor, 1627 Sansom street, Philadelphia. Owner, Charles G. Alexander, Haddonfield, N. J. Frame, 2½ stories, 28x32 feet, shingle roof, stone foundations, hot air heating, electric lighting. Plans in progress.

Shoe Factory, Kaighn avenue, Camden, N. J. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, A. E. Wessel & Son, 108 Federal street, Camden, N. J. Brick, steel and concrete, 2 stories and basement. Plans completed.

New Jersey Contracts Awarded

Residence, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Albert Collier, Bordentown, N. J. Brick, 2½ stories, 23x40 feet, brick foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to A. Mitchell, Bordentown, N. J.

Store (alt. and add.), 528 South Clinton street, Trenton, $8,500. Architect, private plans. Owner, E. De Coila, on premises. Brick and frame, 2 stories, tin roof, plate glass. Contract awarded to D. W. Wright, Trenton, N. J.

School, Burlington City, N. J. Architect, H. A. Brown, River Bank, Burlington, N. J. Owner, School Board, care of W. E. Ridgway, Burlington, N. J. Brick, 1 story and basement, 83x25 feet, 36x72 feet, stone foundations, slate roof (unit system steam heat, electric light and plumbing separate bids), maple floors, hollow tile, metal lath. Contract awarded to J. E. Kolster, Beverly, N. J.

Residence, William street, Trenton, N. J., $6,000. Architect, private plans. Owner, Thomas Allen, 218 East Hanover street, Tren-

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ton, N. J. Cement block, 2½ stories, 14x42 feet, concrete foundations, slate roof, pine floors, steam heat, electric light. Contract awarded to John Walsh, 850 South Broad street, Trenton, N. J.

Machine Shop, Houghton street, Trenton, N. J., $7,553. Owner, R. B. Hewton, 1239 Greenwood avenue, Trenton, N. J. Brick, 1 story, 50x60 feet, concrete foundations, slag roof, concrete floors. Contract awarded to William C. Ehret, 242 Hamilton street, Trenton, N. J.

Storage Building, Klay avenue, Trenton, N. J., $12,000. Architect, private plans. Owner, Trenton Tile Co., Trenton, N. J. Frame, 1 story, 225x26 feet, stone foundations, slag roof. Contract awarded to J. W. Thompson, Broad Street Bank Building, Trenton.

Theatre, Moorestown, N. J. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, Criterion Theatre Co., Moorestown, N. J. Brick and steel, 2 stories, 50x140 feet, slag roof, cement, pine and tile floors, marble work, steam heating, electric lighting, stone foundations, metal lath, roof ventilators, waterproofing. Contract awarded to . S. Rogers Co., Drexel Building, Philadelphia.

Warehouse and Varnish Kilns, Camden, N. J. Architect, private plans. Owner, George D. Wetherill & Co., 114 North Front street, Philadelphia. Brick and steel, 1 story, 96x60 feet, slag roof, concrete floors, iron work, rolled steel sash, stone foundations (heating, electric lighting and plumbing reserved). Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

City Hall (add.), Woodbury, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, City of Woodbury, City Hall, Woodbury, N. J. Brick, 2½ stories, 24x30 feet, slate roof and general remodeling. Contract awarded to Joseph B. Best, Woodbury, N. J.

Residence (alts.), 506 Penn street, Camden, N. J. Architect, Arthur Truscott, Temple Building, Camden, N. J. Owner, F. W. Ayer, on premises. Plumbing, heating, electrical work, tile work. Contract awarded to Louis T. West, 828 Broadway, Camden, N. J.

Delaware Construction News

Church (alts. and add.), Wilmington, Del. Architect, Wallace E. Hance, Wilmington, Del. Owners, McCabe Memorial Methodist Episcopal Church, Wilmington, Del. Stone and steel, 1 story, 61x60 feet, slate and slag roof, pine floors, stone foundations, steam heat, electric lighting, marble work, iron work. Architect taking bids due as soon as possible. William R. Dougherty, 1610 Sansom street, and Thomas Reilly, 1616 Thompson street, Philadelphia, are figuring.

Residences (2), 2107-09 Van Buren street, Wilmington, $20,000. Architect, private plans. Owner, H. B. Donalson, 2300 Jefferson street, Wilmington, Del. Stone and brick, 2½ stories, 28x35 feet, stone foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Bungalow, Franklin street, Wilmington, Del., $6,500. Architect, private plans. Owner, E. Mitchell, 2612 Washington street, Wilmington, Del. Brick, 1½ stories, 30x41 feet, stone foundations, slate roof, hardwood floors, steam heat, electric light, tile work. Owner will build.

Residence (alt. and add.), Seventeenth and Riverview streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Stone, concrete and stucco, 2½ stories, tile roof, hardwood floors, heating extension, electric light, tile and marble work, interior and exterior alterations. Plans in progress.

Residence (alt. and add.) and Garage, Greenhill and Willard streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, W. P. Rood, on premises. Brick, 2 stories, 24x35 feet, stone foundations, shingle roof, cement and hardwood floors, hot air heat, electric light. Plans in progress. Architect ready for bids next week.

Delaware Contracts Awarded

Garage, Fifth and Coleman streets, Wilmington, Del., $2,000. Architect, private plans. Owner, Stanley Krajaenski, on premises. Brick, 20x50 feet, slag roof, concrete floors, electric light. Contract awarded to John Tomczak, 612 South Franklin street, Wilmington.

Foundry (add.), Thirtieth and Spruce streets, Wilmington, $12,000. Architect, private plans. Owner, Speakman & Co., on premises. Brick, 36x109 feet, slag roof, pine floors, electric lighting. Contract awarded to J. E. Healy & Co., Wilmington, Del.

Apartment (alts.), 1411 Van Buren street, Wilmington, $3,000. Architect, private plans. Owner, D. L. Levy, on premises. Frame, interior alterations. Contract awarded to J. A. Bader & Co., Wilmington, Del.

Residence, Wilmington, Del., $13,000. Architect, private plans. Owner, Louis D. Onofrio, 517 Tatnall street, Wilmington, Del. Brick, 2½ stories, 26x36 feet, stone foundations, slate roof, pine floors, steam heat, electric light, tile work. Contract awarded to E. Di Sabralino, 415 Lincoln street, Wilmington.

Residence, Seventeenth street, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Dr. H. Howell, 824 Washington street, Wilmington, Del. Hollow tile and brick, 2½ stories, 46x35 feet, slate roof, hardwood floors, electric lighting. Contract awarded to Haddock & Co., Wilmington, Del.

Commercial Building, 826 Market street, Wilmington, Del. Architects, Hoggson Bros., 485 Fifth avenue, New York. Owners, Wilmington Saving Fund Co., care of Fred Stone, on premises. Steel, fireproof, 5 stories, 27x210 feet, stone foundations, slag roof, hardwood floors, electric light, tile, marble and terrazzo work, rolled steel sash and skylights, elevators, roof ventilators. Contract awarded to Hoggson Bros., 485 Fifth avenue, New York.

Bungalow, Franklin street, Wilmington, Del., $5,000. Architect, private plans. Owner, Norris Morgan, 9091 Jefferson street, Wilmington, Del. Brick, 1 story, 28x37 feet, stone foundations, slate roof, hardwood floors. Contract awarded to E. Mitchell, 2612 Washington street, Wilmington.

Miscellaneous Construction News

Store Building (remodeling), Fayette street and Washington street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Levenson & Klein, on premises. Entire building to be rebuilt and remodeled. Plans in progress.

Store Buliding (alts. and add.), 701-03-05 South Broadway, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Henry Waldorf, on premises. Brick, 45x80 feet, new fronts, general alterations. Plans in progress.

Store and Loft Building, Thirty-fifth street and Seventh avenue, New York, $1,500,000. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, care of architect. Fireproof, steel frame, 16 stories and basement, 82x100 feet, tile roof, reinforced concrete floors, vapor heat, electric light, hollow metal sash, fire doors, (7) elevators, roof ventilators, fire tower. Plans in progress.

Church, Gary, Ind. Architects, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Hungarian Reformed Church, Gary, Ind. Stone and brick, 1½ stories, 40x70 feet, slate roof, pine floors, stone foundations, steam heat, electric lighting, iron work. Owners are taking bids (local contractors).

Church (alt. and add.), Winchester, Va. Architects, Charles Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Centenary Reformed Church, Winchester, Va. Carpentry, mill work, plastering, cement work, brick work. Owners taking bids (local contractors).

Bank Building and Office, Greenville, S. C. Architects, Mowbray & Uffinger, 56 Liberty street, New York City. Owners, Woodside Securities Co., Greenville, S. C. Terra cotta, steel, brick, cut stone and concrete, 17 stories, 199x61 feet, slag roof, tile, marble, concrete and composition floors, metal lath, elevators, roof ventilators, metal window guards, waterproofing, rolled steel skylights, iron stairs, ornamental iron work, steam heating, electric lighting, concrete foundations. Architect taking bids, due May 4th. Cramp & Co., Denckla Building, Philadelphia, are figuring.

Silk Manufacturing Plant, Hopewell, Va. Architects, Meigs, Bassett & Slaughter, Stephen Girard Building, Philadelphia. Owners, Corporation, care of William A. Read & Co., Morris Building, Philadelphia. Brick, terra cotta and steel, 3 stories, 62x128 feet, slag roof, maple and pine floors, stone foundations, vapor heating, electric lighting, marble work, iron work. Architects taking bids due May 8th. J. S. Rogers & Co., Drexel Building, Philadelphia, are figuring.

Bank Building (alts.), to Stores, 104-06 Fayette street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Julius Mintz, Baltimore, Md. Three-story building, 40x110 feet, remodeling heating, electric work, tile and marble work, flush bulks, new partitions, plumbing. Contract awarded to Consolidated Eng. Co., Baltimore, Md.

Community House (alts.), 1914 Madison avenue, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Madison Avenue Temple, on premises. Brick, 4 stories, 40x150 feet, general alterations. Contract awarded to Christian F. Richter, 38 South Liberty street, Baltimore, Md.

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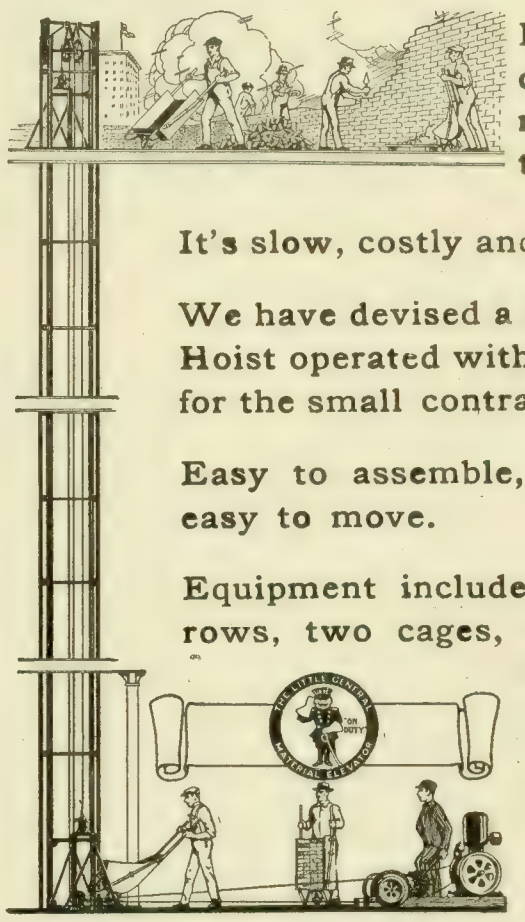
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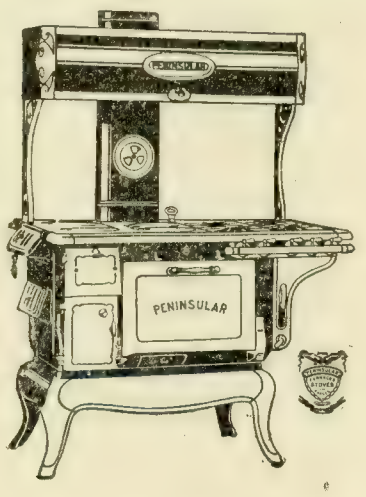
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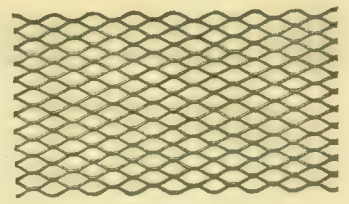
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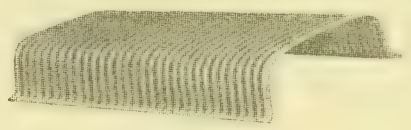
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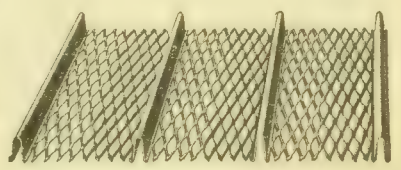
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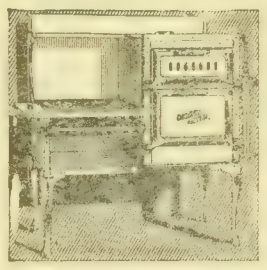
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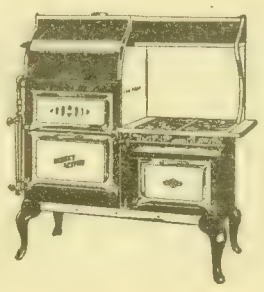
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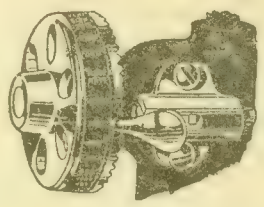
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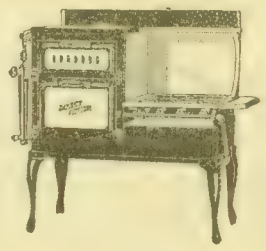
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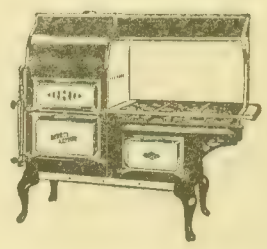
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXV, No. 19
May 12, 1920

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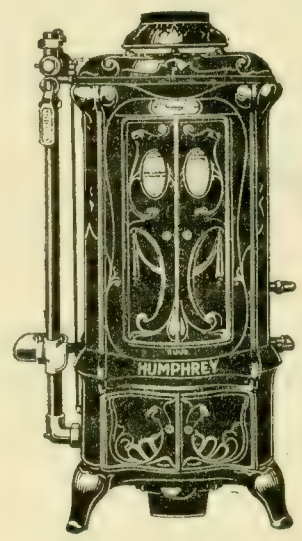
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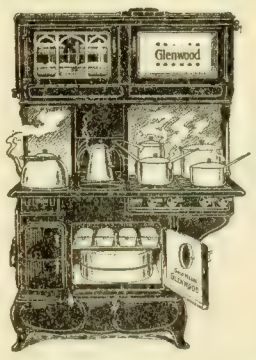
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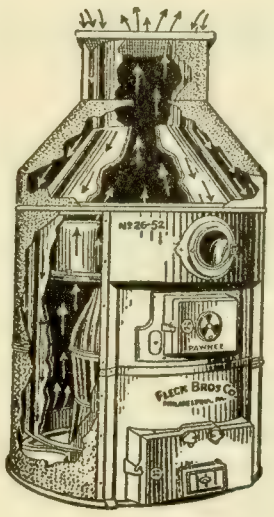


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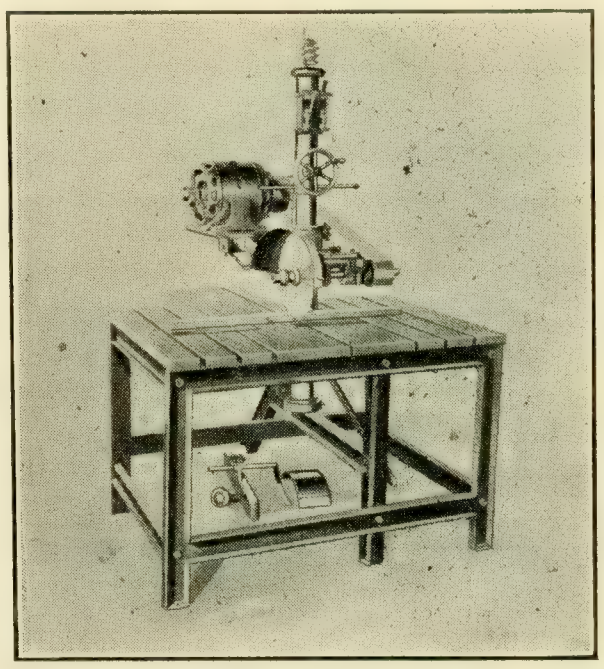
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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May 12, 1920

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As The Editor Sees It

GEORGE M. SEGLIN, Expert Estimator, Department of Architecture, State of New York, asks in the *American Contractor,* "Shall We Build Now?"

This is a very pertinent question, and one that interests everybody in the building trades.

"Shall we build now? and its corollaries are questions that can safely be estimated to be in the minds of 80 per cent. of the thinking men and women, no matter what their walk in life may be," says Mr. Seglin.

The home-seeker is thinking whether it is advisable to start building his home now. The manufacturer is thinking whether it is best for him to build his additions and new plants now. The landowner is thinking whether he should improve his vacant property with income bearing buildings and stop paying taxes on what yields him no return. The investor is thinking whether it is advisable to invest his capital in building projects, for the returns are certainly more than attractive. The rent payer is thinking why he cannot get a desirable place to live in if he is willing to pay more than he ever paid before. And the architect and engineer is thinking: "Shall I advise my client to build?"

But, as always, there are two sides to every problem and this one is no exception. The rent payer is right in his contention that he is paying more; in fact returns on realty today are easily 50 per cent. to 100 per cent. greater and more certain than they were a very few years ago. Normally that would be sufficient reason for the homeseeker who would have to pay that increased rental if he did not build his home, to go right ahead with his cottage. It would also be ample reason for the landowner and investor to start their building operations immediately. If this were the only phase to the question it would be settled very easily. There is an absolute need for all kinds of buildings and the returns are both high and certain. But just as soon as that is determined comes the other phase of the problem—everything costs so much more to produce, and aren't these high prices only here for a short while?—so that after we have invested our capital will we find that the bottom has dropped out of the market and leave us with buildings on our hands that are worth only half what they cost to construct? Then there is another phase to this problem, and that is, have prices reached their peak or are they going still higher?

To begin with, the tendency has been constantly upwards until at the beginning of this year we find that building materials have risen an average of 171 per cent. over what they were in 1915, while labor has risen 71 per cent. over what it was in 1915. The significance of the discrepancy in the rise between labor and material we will discuss later; for the present it is sufficient to note that the entire tendency is upwards with practically no setback; in fact, the tendency is still upward, aind at the date of this writing, April 1, 1920, we find labor and material still climbing upwards; in fact material has climbed to an increase of 195 per cent. and labor to 88 per cent. Now is this rise caused by the vast amount of permanent building that has prevailed since 1915? Of course not. As a matter of fact, the nation is 200 per cent. behind in the normal amount of its production of permanent construction. When the world war began in August of 1914 this country was just going through a period of depression with construction work at its lowest. Then, after the country overcame its pessimism as to the effect of the war upon the material welfare of this nation, it became feverishly busy putting up factories of a more or less temporary and special nature to house war industries. After that came our entrance into the war and with it all private construction ceased. So, with the signing of the armistice, we found ourselves practically four years behind in construction. Further, there was also a shortage of building materials due to the insatiable demands of our war authorities, which not only consumed all the available supply as fast as it was produced, but also absorbed our entire surplus to such an

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extent that with the end of the war the only visible supply of material on hand was the comparatively little material left over at the various cantonments and war supply bases.

Thus, with the cessation of hostilities and the return and release of our vast army, we began facing a threefold problem:

First, where to get homes that should have been built to take care of the normal increase in population.

Second, where to get the material necessary ot build these homes.

Third, where to get the men with which to build these homes.

We began to feel this dearth of homes even before the signing of the armistice, but it has become acute since then and it is becoming worse every day; in fact, it has reached such a state that the Legislature of the State of New York has found it necessary to pass remedial measures to try to curb the action of rent profiteers who are taking advantage of this shortage to gouge the rent payer. Practically all the other States are facing the same problem in one form or another. Now what is necessary is enough houses to take care of the normal increase each year and enough more to overcome this 200 per cent. shortage. Therefore, if this nation made a superhuman effort and doubled its production each year, it would take four years to overcome this shortage, and then what would we have? We would have a sufficient supply to just take care of our increased population. But this does not mean that the property owner would have to cut hs legitimate profits to rent his property, for it is only when an over supply is reached that this surplus becomes vacant. Only when this condition is reached does it become a contest as to whose property shall be within this surplus, with the law of supply and demand stepping in and causing a drop in prices.

But this ideal condition of production is absolutely impossible, due to a number of various reasons. One of the principal reasons is that all of the forms of construction have suffered for the same reason that the home has suffered. For example, take the Hospital and Custodial problems of New York. They are ten years behind their needs, and it will take all of that to begin to solve it. Then there is the vast amount of labor required to convert the factories from a war to peace time basis, besides providing housing conditions for all the industries that have been curtailed and fairly stifled to provide room for war activities. So that we find that the various State, Municipal and Commercial needs will demand a big proportion of the available construction, leaving very little for home construction. In fact, this need is so urgent that it is questionable whether there will be possible for some time to come any surplus home construction at all. So we see that, while the most optimistic view would place the probable return to normal at four years, the actual return to nearly normal would be nearer six to seven years. By normal I mean a supply sufficient to take care of the demand comfortably and a production ample to take care of the average increase.

Now comes the question of building material. Where shall we get the material with which to supply the abnormal demand? The signing of the armistice found the material markets stripped of all stock, aind the production of the factories converting the raw material into building materials cut to a fraction of their producing capacity. With the removal of war time restrictions these factories had to begin readjusting themselves and try to collect their organizations together. Organizations that had become disintegrated, both by the draft and by the attraction to the higher pay offered by the war industries. The supply of labor was further depleted by emigration, immediately after the signing of the armistice, with their savings from the almost fabulous wages paid them.

So we find that all the surplus of both labor and material which should have tided us over this period of readjustment was gone, consumed by the feverish demands of the government. Thus we find the inevitable laws of supply and demand stepping in again the price curve keeps continually going upwards. The only time we can hope to see this continual rise cease is when the supply will begin to equal the demand. And we can only begin to see a recession in price when our surplus stock of material begins to rise. This is, without doubt, many years off. For even if the supply became normal it would not begin to meet the demand, a demand which is attempting to satisfy and overcome a four-year famine. In fact, it would require an actual doubling in production for four years to just about overcome this shortage. But such a volume of production is utterly impossible when we take cognizance of the fact that these industries have to face both a shortage in man-power and competition for raw material with other industries. Therefore it will be nearer six or seven years before the building material markets will be able to hope to begin accumulating a surplus, and then, and only then, can we hope to see any recession in prices. But this recession can only be a gradual one, as the surplus can only be acquired gradually over a period of years and the price can only be hoped to keep receding as the surplus grows, or, in other words, I do not think we can see a real drop in price for at least eight to ten years.

Lastly, comes the problem of labor. Even if we had the material, where could we get the labor with which to install this material. The first serious need is for skilled mechanics, a need which is beginning to be felt more acutely every day. This shortage in skilled labor is due to many reasons. First, is the laxness that prevailed, even before 1915, in the way the young man was trained for the various trades and also the poor outlook for the future after he did learn the trade. So that when the war industries came along with their seemingly fabulous wages for work that required no training, the young men flocked to these industries. Then came the draft and took the young men off and so we find a real need for skilled mechanics. This will cause a further rise in price of labor, as the youth of today will have to be offered something at least as good as he can get elsewhere before he can be induced to learn a trade. This fact has already been recognized in other industries and so we find that we are facing a possible further rise in the cost of labor, probably one that will more nearly equal the rise in the cost of materials and the rise of the cost of labor in other industries. Moreover, the emigration of vast numbers of foreign laborers and the practical stoppage of immigration has caused an acute shortage of unskilled laborers, an absolute necessity in any building operation.

Further, this probable rise in the wages of labor becomes more probable when you compare the price curves of both labor and material. Normally labor represents approximately one-third the cost of a building operation, but with the uneven rise in the cost of these two elements we find that labor now represents only 25 per cent. of the cost of an operation. Thus we find that either the price of materials must come down or labor will have to go up to equal the rise in price of materials. There is very little likelihood for material to go down, as we have seen earlier in this article and as can be further proven by the quotations on materials in the open market. In fact we can easily see that wages of labor are still going up when you watch the ease with which the building trades are getting their spring demands for increases. As a matter of fact, I do not think this rise in wages will stop until we find the average rise in wages about equals the rise in materials. So taking it all in all, I can see no chance for a drop in demand for at least six to eight years and in cost in not less than ten years. Therefore, my advice would be to build

(Continued on Page 471.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Pipe Bending Shop, Master street and Germantown avenue, Philadelphia. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, Crane Co., 245 Master street, Philadelphia, and Chicago, Ill. Brick, terra cotta and steel, 1 story, 20x60 feet, gypsum block roof, wood block and pine floors, hollow tile and metal lath, roof ventilatrs, waterproofing, stone foundations, hollow metal sash, rolled steel skylights, fire doors, iron work. Architects taking bids due May 14th. Pringle Borthwick, 8018 Germantown avenue; H. E. Baton, 1713 Sansom street; John Gill & Co., Otis Building; F. W. Van Loon, Perry Building; Warren-Moore Co., Colonial Trust Building, and Cramp & Co., Denckla Building, are figuring.

Residence (alts.' to Apartment House, 1806 Erie avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Solomon E. Levy, Bulletin Building, Philadelphia. Carpentry, mill work, roof repairs, plumbing, electric work, hardwood floors, hot water heating extension, hardware. Owner taking bids due as soon as possible. Kober Const. Co., Middle City Building, is figuring.

Elevated Stations, Contracts Nos. 557 & 576, Frankford Elevated. Architect, private plans. Owner, City of Philadelphia, City Transit Department, 1211 Chestnut street, Philadelphia. Owners taking bids, due May 18th. Standard Const. Co., 1713 Sansom street; M. H. McCloskey, Jr., Inc., 1620 Thompson street; W. W. Anstine & Co., 1218 Filbert street, Philadelphia, and Conner Bros. & Co., 15 West Ninety-first street, New York City, are figuring.

Station Platforms, Contract No. 571, Frankford Elevated, Philadelphia. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Owners taking bids due May 18th. George B. Clopp, 3717 Filbert street; Standard Const. Co., 1713 Sansom street; Johns Manville Co., 210 North Broad street; F. J. Beas, 201 North Broad street, Philadelphia, and the Dravo Cont. Co., Pittsburgh, Pa., are figuring.

Office Building, Seventeenth and Cherry streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Sun Oil Company, Chester, Pa. Brick, cut stone, terra cotta, concrete and steel, 12 stories, 84x88x36 feet, asphalt built up roof, marble and cement floors, terra cotta, metal lath, elevators, waterproofing, concrete foundations, steam heating (lighting reserved), hollow metal sash, rolled steel skylights, kalamein and metal doors, iron stairs, iron work. Architect taking bids from Geo. A. Fuller, Widener Building, due May 18th.

Store (alts. and add.), Clearfield and Livingston street, Philadelphia. Architect, J. S. Fuller, 1537 Chestnut street, Philadelphia. Carpentry, mill work, tile work, marble work, parquetry floors, electric lighting. Architect is ready for bids.

Residence (alts.), Southeast Corner Eleventh and Cherry streets, Philadelphia. Architect, private plans. Owners, Philadelphia Lying-in Charity Hospital, Southwest Corner Eleventh and Cherry streets. New bath rooms, tile work, electric lighting, general interior alterations. Owners taking sub-bids.

Store Building (alts.), 119 South Front street, Philadelphia. Architects, DeArmond, Ashmead & Bickley, Franklin Bank Building, Philadelphia. Owners, Jos. Tetley & Co., on premises. New front, general interior and exterior alterations, brick work, plate glass, plumbing, steam heat, electric lighting, electric elevator, plastering. Plans in progress.

Sales and Service Building, Broad and Thompson streets, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Nash Agency, care of C. B. Pieronet, 342 North Broad street, Philadelphia. Architect selected. Sketches in progress. Too early for details.

Store, Haines street and Germantown avenue, Philadelphia. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, A. D. Frost, on premises. Brick, 1 story, 14x65 feet, slag roof, pine floors, pipeless heater, electric lighting. Architect ready for bids.

Apartment House (add.), 247-49 South Juniper street, Philadelphia, $125,000. Architects and owners, Simon & Simon, on premises. Brick, 6th, 7th, 8th, 9th and 10th floor addition, 36¾x67½ feet. Plans in progress.

Warehouse, Garage and Stable, Second and Washington avenue, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. Brick, slow burning construction, 1 story, 300x200 feet, slag roof, cement floors, electric lighting, steam heat, rolled steel sash, hollow metal skylights. Plans in progress.

Post Office (alts.), Ninth and Chestnut streets, Philadelphia. Owners, United States Government, Office of Custodian, Ninth and Market streets. Carpentry, mill work, hardware, painting, glazing. Owners taking bids due May 21st. F. W. Van Loon, Perry Building; Joseph F. Price, 2048 Rittenhouse street; Kober Const. Co., 34 South Seventeenth street; Albert Zellfelder, 151 South Broad street; F. L. Hoover & Son, 1023 Cherry street; Thomas C. Trafford, 1613 Sansom street, and F. W. Hosebach, 821 Cherry street, are figuring.

Apartment House, Frankford, Philadelphia. Architects, Antrim & Connaroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick, 3 stories, 45x140 feet, slag roof, pine floors, stone foundations, hot water heat, electric lighting, fire escapes. Architects will be ready for bids in two weeks.

Bridge, South street over Schuylkill River, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of John C. Winston, Director, Room 746, City Hall, Philadelphia. Owners taking bids due May 28th at noon, Room 216. Bethlehem Steel Co., Morris Building; Hydrex Felt Eng. Co., 4861 North Fifth street; Scherzer Bridge Co., Chicago, Ill.; Snare & Triest, Pennsylvania Building; Arthur McMullin, Finance Building, Philadelphia; Strauss Bascule Bridge Co., New York City, and Eng. & Const. Co., Chicago, Ill., are figuring.

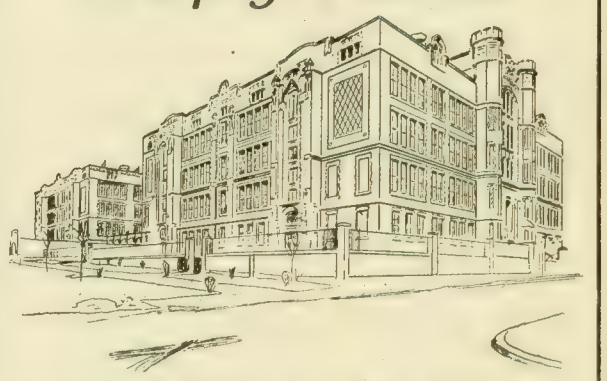
Garage, 1507 North Thirty-third street, Philadelphia, $5,000. Owner, A. Leitvitz, 3214 Columbia avenue, Philadelphia. Brick, 2 stories, 20½x68 feet, 1 story, 21x58 feet, slag roof. Owner will build.

Store and Dwelling (add.), 2239 North Thirtieth street, Philadelphia, $10,000. Architect, private plans. Owner, C. J. Williams, 3200 Arizona street, Philadelphia. Brick, second story add., 16x33 feet, third story add., 11x23 feet, slag roof, electric lighting, interior alterations. Owner will build.

Garages (3), Bryn Mawr avenue and Woodbine avenue, Philadelphia, $1,000 each. Architect, private plans. Owner, Thomas F. Reilly, 2400 Bryn Mawr avenue, Philadelphia. Stone, 1 story, 24½x35 feet, slag roof, cement floor, electric light. Owner will build.

Factory Building, Janney street, North of Ontario street, Philadelphia, $10,000. Architect, private plans. Owner, William Ford, 5024 Penn street, Frankford, Philadelphia. Brick, 1 story, 109x58 feet, and 120x58 feet, slag roof, electric lighting, cement floor and pine floor. Owners will build.

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Residences (14), Fiftieth, Pine and St. Bernard streets, Philadelphia, $156,000. Architect, private plans. Owners, Saidel & Berger, 5749 Walnut street, Philadelphia. Brick, 2 stories, 16x58 feet and 16x36¾ feet, 12½x21 feet, slag roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Owners will build.

Residence (alts.), 2241 North Thirtieth street, Philadelphia, $3,500. Architect, private plans. Owner, C. J. Williams, 3200 Arizona street, Philadelphia. Alterations to three apartments. Owner will build.

Store and Residence (alts.), Thirteenth and Bainbridge streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Nathan Leidner, 1309 Bainbridge street, Philadelphia. Carpentry, marble work, electric work, plastering, steam heating, plumbing, painting, glazing. Owner is ready for bids.

Store Building (alts.,, S. E. Cor. Front and Dauphin street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, J. Diamond, 734 South street, Philadelphia. General alterations to three-story building, 50x60 feet, hardwood floors, metal cornice, structural steel work, electric light, tile and marble work, metal ceilings, plate glass, heating alterations. Owner will take bids in a few days.

Store and Apartments (alts. and add.), S. E. Cor. Seventh and Sigel streets. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, L. Barkan, care of architect. Brick, three-story addition, 17x25 feet, slag roof, hardwood, tile and pine floors, stone foundations, electric light, hot water heating, marble work, plumbing, flush bulks. Owner is taking sub-bids.

Conveyor (alts. and add.), Orthodox and Delaware avenue, $25,000. Engineer, M. Ward Easby, Inc., 1420 Chestnut street, Philadelphia. Owners, Ajax Metal Co., 46 Richmond street, Philadelphia. Iron on iron. Engineer will build and is taking sub-bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Completion of Surgical Pavilion, Thirty-fourth and Spruce streets, $75,000. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, University of Pennsylvania, Thirty-foruth and Spruce streets, Philadelphia. Five stories, roof repairs, oak and terrazzo floors, tile and marble work, metal lath, elevators, hollow metal sash, copper skylights, steel doors, waterproofing, iron stairs, ornamental iron work. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Hotel (alts. and add.), 1337-39 Arch street, Philadelphia, $25,000. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Strand Hotel Co., on premises. Carpentry, mill work, plastering, steel work, roof repairs, oak and composition floor, steam heat, electric lighting, tile and marble work, iron work, metal lath. Contract awarded to Pierce-Henon, Inc., Bulletin Building, Philadelphia.

Residence (alts. and add.), Oak Lane, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Captain J. G. Tawresey, U. S. N., Sixty-ninth street and Oak Lane avenue, Philadelphia. Stone, stuccoed, third-story add., 15x39 feet, 1 story add., 13x29 feet, slate roof, pine floors, stone foundations, hot air heating, electric lighting, tile work, plumbing. Contract awarded to Nicholas Altarelli, 537 Carpenter street, Philadelphia.

Store Building, 1309 Arch street, Philadelphia. Architect, private plans. Owners, Central Electric & Lock Co., 12 North Thirteenth street, Philadelphia. Brick, 2 stories, 20x125 feet, slag roof, pine floors, metal lath, stone foundations, rolled steel sash, kalamein doors, metal ceilings, dampproofing, ornamental iron work. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

Residence, Torresdale, Philadelphia, $10,000. Architect, John E. Bullock, 34 South Seventeenth street, Philadelphia. Owner, Frank Michell, care of Henry F. Michell Co., Andalusia, Pa. Hollow tile and stucco, 29x30 feet, slate roof, hot water heat, electric lighting, hardwood floors. Contract awarded to Frederick Darrah, Andalusia P. O., Bucks County, Pa.

Dwelling, 6434 Jefferson street, Philadelphia, $20,000 (Germantown, Philadelphia). Architect, private plans. Owner, Mrs. E. C. Janney, 212 West Upsal street, Philadelphia. Stone, 3 stories, 43½x27 feet, 17x10½ feet, slate roof, hot water heating, electric lighting, hardwood floors, tile and marble work. Contract awarded to F. Elvidge & Son, 5522 Germantown avenue.

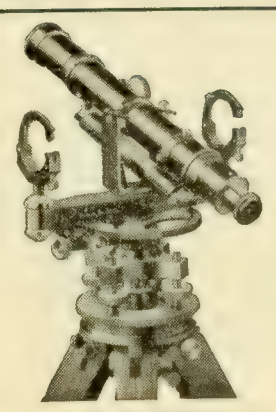
Garage, 419-21 Fitzwater street, Philadelphia, $16,000. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Samuel Kornofsky, 419 Fitzwater street, Philadelphia. Brick, 1 story, 41½x130 feet, slag roof, stone foundations, steam heating, electric lighting, hollow metal skylights. Contract awarded to Julius Ostroff, 310 Porter street, Philadelphia.

Apartments and Store (alts. and add.), Fortieth and Baltimore avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Frederick Felzman, care of architects. General alterations and addition. Contract awarded to West Phila. Const. Co., 5106 Parkside avenue.

Store and Dwelling (alts.) and Garage, Southeast Corner Forty-third and Pine streets, $3,000. Architect, private plans. Owner, W. H. Lappe, on premises. Brick, second story, 16x17 feet, third story, 16x26 feet, garage, brick, one story, 16x17 feet, slag roof, cement floor, electric lighting. Contract awarded to Nicholas Ricci, 775 South Tenth street, Philadelphia.

Store and Dwelling (alts.), 24 North Fiftieth street, Philadelphia, $3,600. Architect, private plans. Owner, Mrs. W. T. Collins, on premises. General alterations. Contract awarded to Curtis Gundrod, 404 Franklin Building, Philadelphia.

Store and Dwelling (alts.), Northeast Corner Seventeenth and South streets, Philadelphia, $7,500. Architect, private plans. Owner, L. Goldberg, 1608 South street, Philadelphia. Brick, second and third story add.,



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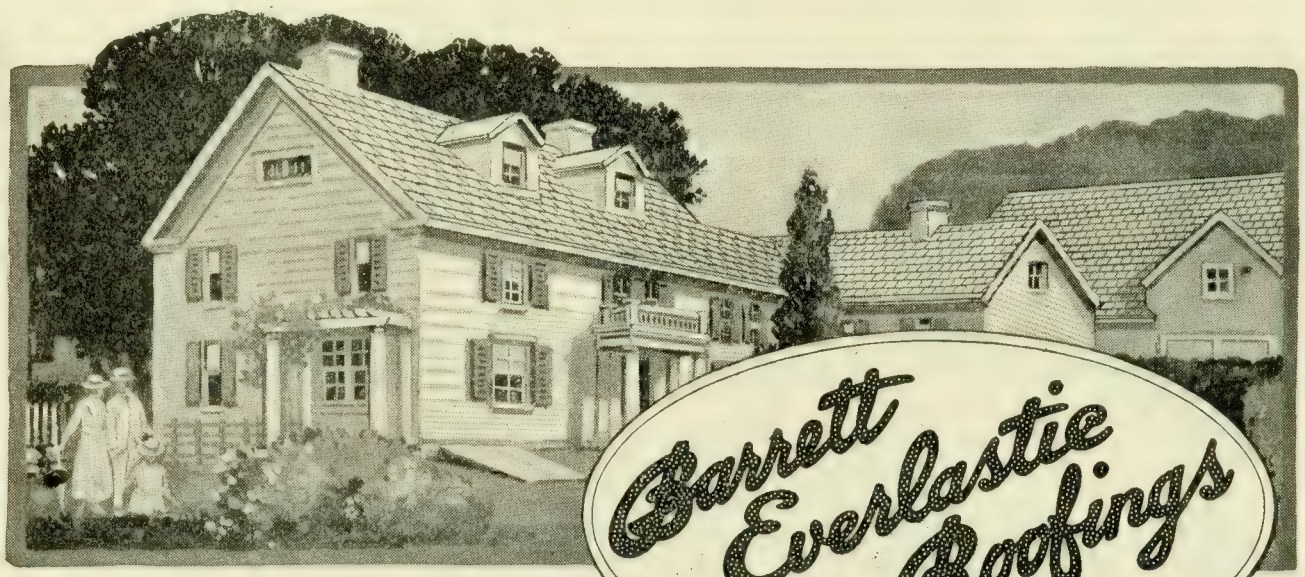
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14½x12 feet, slag roof. Contract awarded to Charles Schnitzer, 2513 North Thirty-first street, Philadelphia.

Garage, Southeast Corner Sixty-third and Jefferson streets, Philadelphia, $3,500. Architect, private plans. Owner, Dr. Charles Harvey, 5300 Girard avenue, Philadelphia. Stone, 1 story, 26x20 feet, slate roof, cement floor, electric lighting. Contract awarded to Samuel A. Rogers, 5312 Thompson street, Philadelphia.

Tenements (3), Northeast Corner Forty-ninth and Springfield avenue, Philadelphia, $5,000. Architect, private plans. Owner, Thomas J. Hughes, on premises. General alterations. Contract awarded to William A. Thompson, 1529 Filbert street, Philadelphia.

Residence (alts.), 2038 Wallace street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. L. Meginnis, on premises. Changing partitions, steam heat, electric lighting, plumbing. Contract awarded to Jones Davies, 3915 Walnut street, Philadelphia.

Store and Dwelling (alts. and add.), 1202 North Fifth street, Philadelphia, $4,700. Architect, private plans. Owner, J. Weiss, 862 North Fourth street, Philadelphia. Brick, 3 stories, 14½x20 feet, 2 stories, 14½x9 feet, 2 stories, 10x18 feet, and 1 story, 5x47 feet, slag roof, electric lighting. Contract awarded to A. Love, 3043 Page street, Philadelphia.

Store (alts.), Northeast Corner Tenth and Market streets, Philadelphia, $6,500. Owners ,V. Steese and Mary S. Fouer, on premises. New front. Contract awarded to Basch & Co., 1426 South Front street, Philadelphia.

Office, Store Room and Dwelling (alts.) and Garages (4), 222 East Willow Grove avenue, Philadelphia, $3,500. Architect, private plans. Owner, Mrs. Sarah L. McCarty, 28 East Willow Grove avenue, Philadelphia. Brick, 1 story, 15½x16 feet, and 2 stories, 40x17 feet, slag roof. Contract awarded to Wolverton & Co., 28 East Willow Grove avenue.

Garage, Southeast Corner B and Allegheny avenue, Philadelphia, $4,000. Architect, private plans. Owners, Smith Bros., on premises. Brick, 2 stories, 45x25 feet, slag roof, cement floor, electric light. Contract awarded to Ellis & Fisher, 344 North Fourth street, Philadelphia.

Dwelling (alts.), Southeast Corner Twenty-second and Erie avenue, Philadelphia, $3,400. Architect, private plans. Owner, Mrs. Minnie Hart, 3159 North Twenty-fourth street, Philadelphia. General interior alterations. Contract awarded to Thomas Matthews & Son, 2336 North Hancock street.

Office (alts. and add.), 1435 Walnut street, Philadelphia, $3,000. Architect, private plans. Owners, Hughes & Son, on premises. Brick, second and third story add., 18x8 feet, and 13½x24 feet, slag roof. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Store and Dwelling (alts. and add.), 3630 North Broad street, $3,000. Architect, private plans. Owner, T. Marquihard, 3633 Germantown avenue, Philadelphia. Brick, 1 story, 15½x16 feet, slag roof. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Garage (add.), 2014-16 East Stella avenue, Philadelphia, $5,500. Architect, private plans. Owner, Sylvester F. Baugher, 2973 Frankford avenue, Philadelphia. Brick, 1 story, 45x73 feet, slag roof, electric lighting. Contract awarded to Harry S. Barnes, 2080 East Willard street, Philadelphia.

Fire Repairs, 2530-32 North Fourth street, Philadelphia, $10,000. Architect, private plans. Owner, Full Fashioned Hosiery Co., on premises. General restoration. Contract awarded to G. J. Reich, 1124 Louden street, Philadelphia.

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Store (fire repairs), 1764 North Front street, Philadelphia, $3,500. Owners, Dreifus & Co., 2007 Frankford avenue, Philadelphia. Brick, 2 stories, 18x110 feet, slag roof, general fire repairs. Contract awarded to S. M. Peters, 3630 North Fifth street, Philadelphia.

Office Building (alts.), 508-10 Walnut street, Philadelphia, $6,000. Owner, Pennsylvania Fire Ins. Co., on premises. General alterations. Contract awarded to Max Dolinky, 420 Walnut street, Philadelphia.

Dye House (add.), Northwest Corner Emerald and Westmoreland streets, $15,000. Architect, private plans. Owners, Caledonia Dye Works, on premises. Brick, 1 story, 40x74 feet, slag roof, cement floor, electric lighting. Contract awarded to Stewart Bros., 2528 North Orkney street, Philadelphia.

Factory, Seventy-third and Elmwood avenue, Philadelphia, $32,000. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Flexible Metallic Tubing Co., Broad and Race streets. Brick and steel, 2 stories, 110x44 feet, slag roof, maple and cement floors, metal lath, stone foundations, iron work. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

Sanitarium (alts.) to Apartments, 1929-31 Wallace street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, F. Hano, care of architect. Carpentry, mill work, iron work, plastering, painting, hardwood, electric work, plumbing, steel work. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Yeast House (add.), Northwest Corner Snyder avenue and Swanson street, $4,000. Architect, private plans. Owner, Henry Publicker, on premises. Brick, second story add., 22x51½ feet, slag roof, pine floors. Contract awarded to J. Levin, 1824 South Second street, Philadelphia.

Store and Residence (alts. and add.), 2613 Germantown avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Joseph Wittenberg, on premises. Stone foundations, carpentry, mill work, fire doors. Contract awarded to C. Nelson Rocholl, 217 Northeast Boulevard, Philadelphia.

Stores and Dwellings (2) **(alts. and add.),** Ridge avenue and Livingston street, Philadelphia, $3,000. Owner, J. R. Wilson, 929 North Broad street, Philadelphia. Brick, 1 story, 8x30 feet, 1 story, 5x16 feet, 1 story, 10x22 feet. Contract awarded to F. Friend, Haddon Heights, N. J.

Garage, 6452 Overbrook avenue, Philadelphia, $2,500. Architect, private plans. Owner, George H. Buchanan, on premises. Stone, 1 story, 18x20 feet, slag roof, electric light, cement floors. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Garage (alts.), 1211 Vine street, Philadelphia, $3,500. Architect, private plans. Owners, Quaker City Taxi Co., 1215 Vine street, Philadelphia. General alterations, cement work, electric lighting. Contract awarded to A. MacTavish, 1513 Pine street, Philadelphia.

Garage, 6603 Lawnton street, Philadelphia, $2,300. Architect, private plans. Owner, H. Parrott, on premises. Brick, 1 story, 20x21 feet, slag roof, cement floor, electric lighting. Contract awarded to Alonzo Stites, 1761 North Twenty-seventh street, Philadelphia.

Garage (alts. and Add.), 1315-17 Cambridge street, Philadelphia, $5,000. Architect, private plans. Owners, Anton Dorfner & Son, 1324 Girard avenue, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, electric lighting, cement floors, metal doors. Contract awarded to Herman C. Guengel, 408 Buttonwood street, Philadelphia.

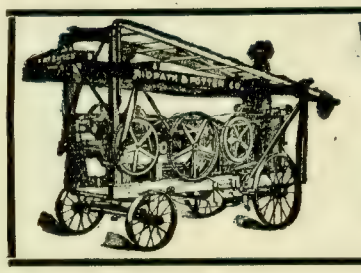


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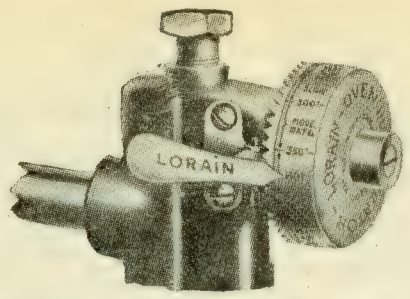


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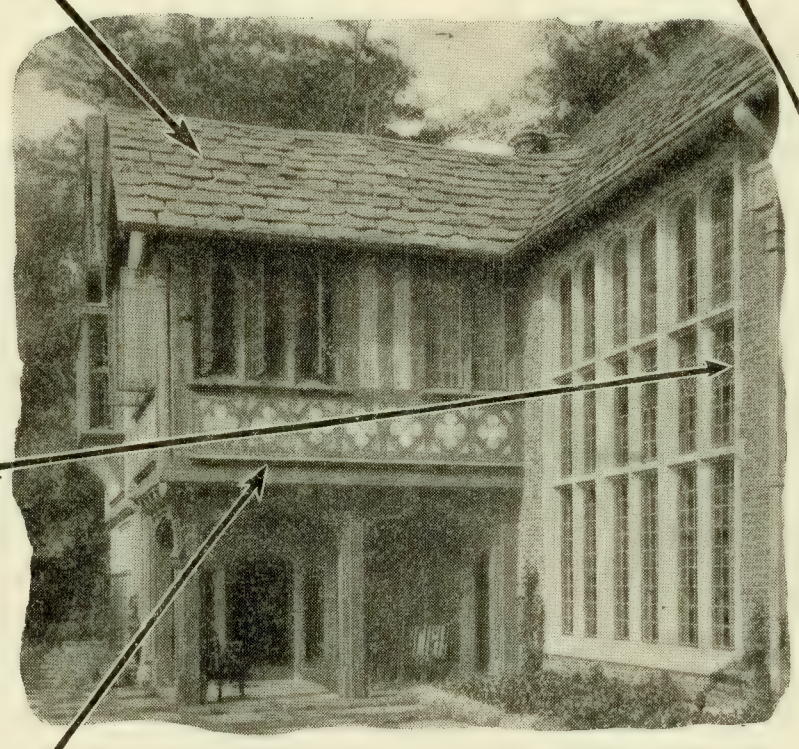
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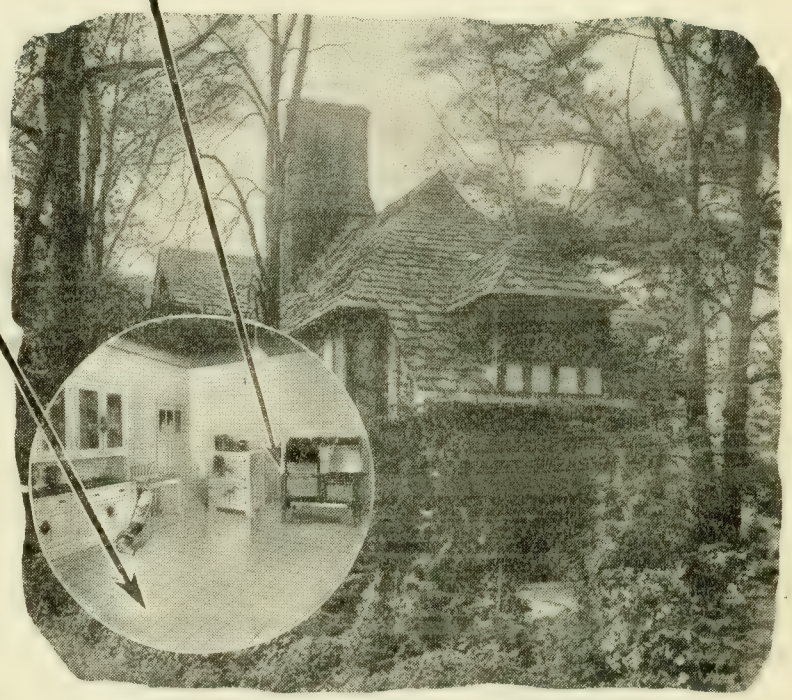
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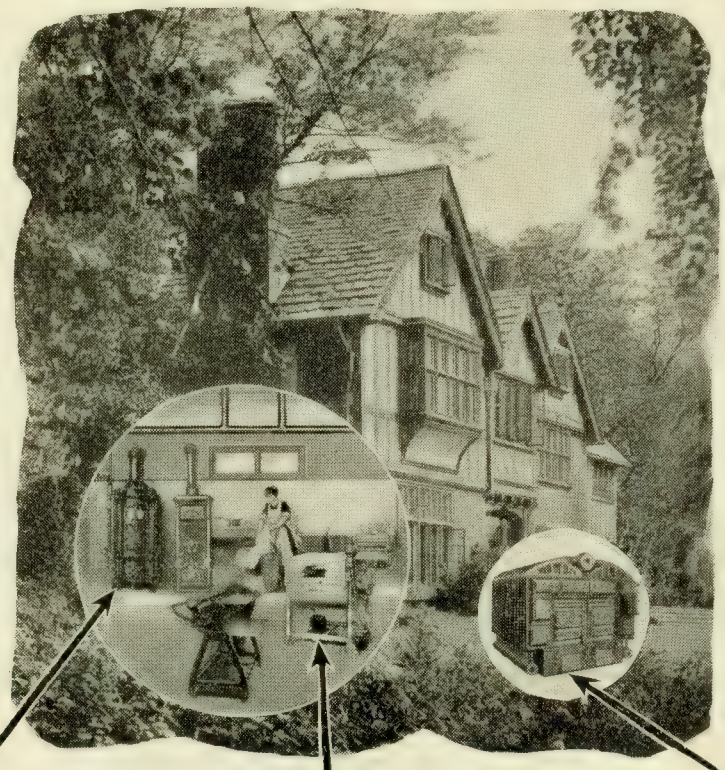
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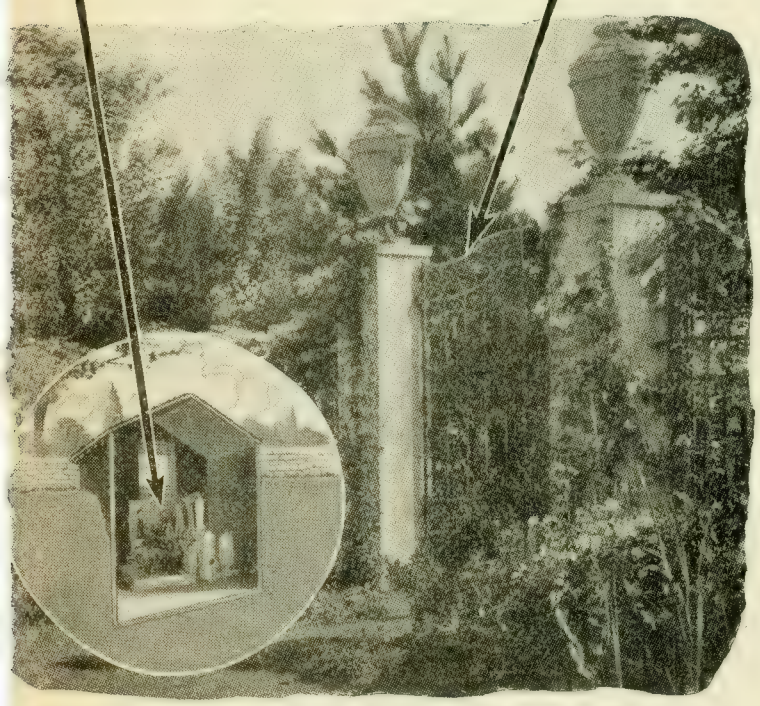
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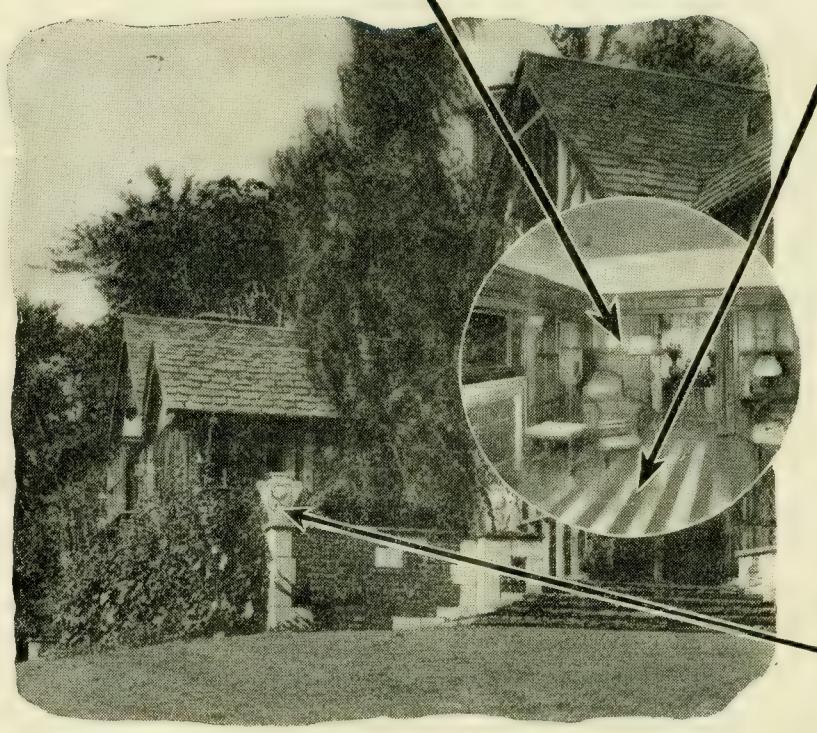
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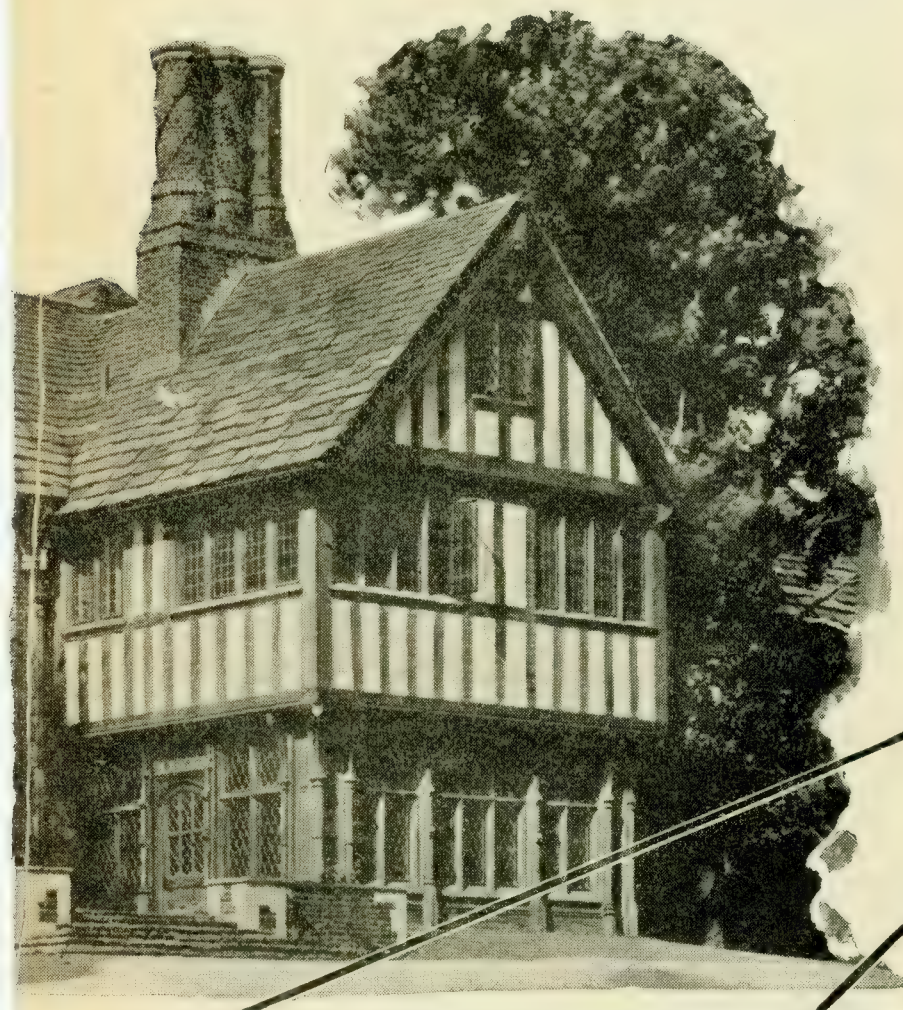


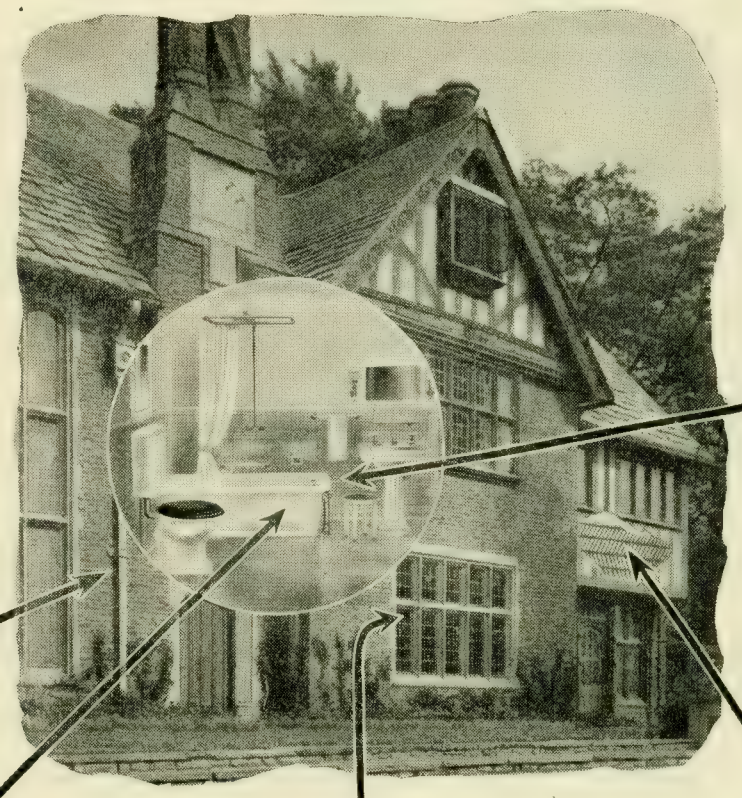


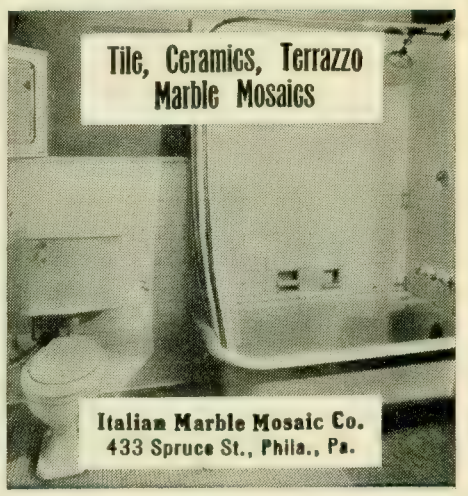
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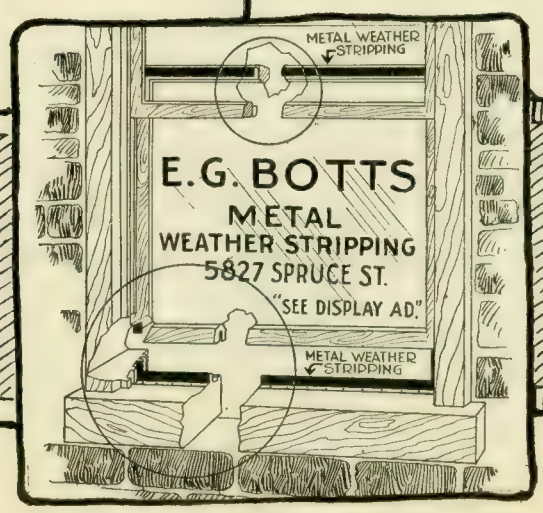






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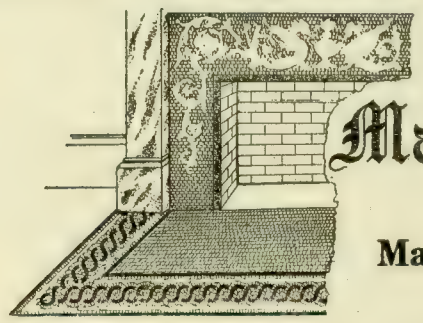
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Pennsylvania Construction News

Store, Olyphant, Pa., $35,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, M. Bosak, 203 Jones street, Olyphant, Pa. Brick, 3 stories, 60x70 feet, slag roof, maple floors, hot air heat, electric light, rolled steel skylights, roof ventilators. Plans in progress.

Residence (alts.), Larksville, Pa. Architect, A. J. Prandzik, Scranton Life Building, Scranton, Pa. Owner, St. John's Polish Roman Catholic Church, Rev. P. Kopecki, premises. Frame and stucco, 2½ stories, 50x36 feet, slate roof, hardwood floors, heating extension, electric lighting. Plans in progress.

Church (alt. and add.), Simpson, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. Basily Russian Orthodox Church, on premises. Frame, 1 story, 40x50 feet, pine floors. Plans in progress.

Garage, Wyoming avenue, Scranton, Pa., $45,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Brick, steel, 2 stories and basement, 65x50 feet. Preliminary plans in progress.

School and Auditorium, Larksville, Pa. Architect, A. J. Prandzik, Scranton Life Building, Scranton, Pa. Owner, St. John's Polish Roman Catholic Church, Rev. P. Kopecki, premises. Brick, 2 stories. Plans in progress.

Factory (add.), Honesdale, Pa. Architect, D. A. Morgan, Connell Building, Scranton, Pa. Owner, Birdsall Bros. Co., Honesdale, Pa. Brick, irregular size, slag roof, wood floors, electric light, rolled steel sash, fire doors, plumbing, heating. Plans in progress.

Residence, Dorencetown, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Grace Church, care of architect. Stucco, 2½ stories, 30x40 feet, slag roof, pine floors, vapor heat, electric light, metal lath. Architect has received bids.

Residences (6), Nazareth, Pa., $20,000. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Dexter Portland Cement Co., care of J. Prohston, Nazareth, Pa. Brick, 1½ stories, 28x26 feet. Owner will take sub-bids.

Store (add.), 16-18 North Seventh street, Allentown, Pa. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, O. N. Clauss, 1509 Linden street, Allentown, Pa. Brick, 2 stories, 50x160 feet, slag roof, hardwood floors, electric light. Owner will take sub-bids.

Church, Chester, Pa., $100,000. Architects,

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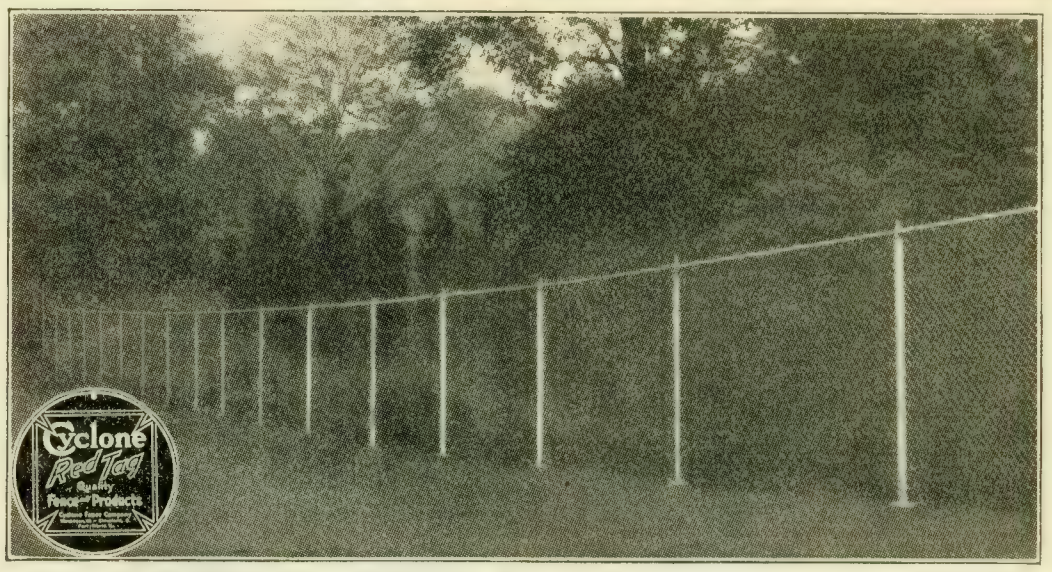
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Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Trinity Methodist Episcopal Church, Chester, Pa. Stone, 2½ stories, 70x100 feet, slate roof, pine floors, steam heat, electric lighting, iron work. Architects taking sub-bids.

Bungalow, Oakmont, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John McKeeman, 1488 North Fifty-third street, Philadelphia. Stone, brick and plaster, 1½ stories, irregular size, slate or shingle roof, hardwood floors, stone foundations, hot water heat, electric lighting, tile and marble work. Plans in progress.

Garage, Ashbourne, Pa. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, William Fox, care of architect. Brick and steel, 1 story, slag roof, cement floors, stone foundations, electric lighting, steam heat, iron work. Architect taking bids due May 13th. Smith-Hardican Co., 1606 Cherry street, is figuring.

Warehouse and Garage, Hazleton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Hazleton Produce Co., Hazleton, Pa. Brick, 1 story and basement, 120x87 feet, stone foundations, slag roof, wood floors, electric light. Owner has received bids.

Residence, Wayne, Pa. Architects, Boyd, Abel & Gugert, Estey Building, Philadelphia. Owner, J. H. Jeffries, Wayne, Pa. Stone and stucco, 2½ stories. Architects taking bids. William D. and H. F. Smedley, Narberth, Pa., and Gray Bros., Rosemont, Pa., are figuring.

Garage, Meadowbrook, Pa. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Edw. E. Marshall, Meadowbrook, Pa. Stone, 2 stories, 45x26 feet, shingle roof, concrete and pine floors, stone foundations, hot water heating, electric lighting. Architects have received bids.

Stores (alt. and add.), South Bethlehem, Pa. Architect, D. Levy, 935 Hamilton street, Allentown, Pa. Owner, Benj. Goodman, 18 East Third street, South Bethlehem, Pa. Brick, steel, 1 story and basement, 33x90 feet, concrete foundations, slag roof, steam heat, electric light, tile and marble work, plate glass, sheet metal work. Architect has received bids.

School, Kingston, Pa., $50,000. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, School Board, D. M. Rosser, Kingston, Pa. Brick, 2 stories and basement, 68x78 feet, concrete foundations, slag roof, maple floors, steam heat, electric light, elevators. Owner has received bids.

Residence (add.), Scranton, Pa. Architect, A. J. Prandzik, Scranton Life Building, Scranton, Pa. Owner, Dr. J. F. Zychowicz, Pittston, Pa. Sun parlor, laundry, marbeloid and wood floors, interior alterations. Architect has received bids.

Residences (100), Easton, Pa., $4,000 each. Architect, private plans. Owner, Co-operative Industrial Housing Co., care of D .W. Nevin, Easton, Pa. Hollow tile, brick, 2 stories, 24x32 feet. Work contemplated.

Residence (alt.), Hamilton street, Allentown, Pa. Architect, D. Levy, 935 Hamilton street, Allentown, Pa. Owner, J. Phillips, on premises. Complete rebuilding, slag roof, hardwood floors ,vacuum steam heat, electric light, tile work, plumbing. Architect ready for bids.

Store and Apartment, Allentown, Pa. Architect, D. Levy, 935 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, frame, 3 stories and basement, 40x75 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids.

Factory, Kutztown, Pa. Engineers, Bascon & Sieger, Allentown, Pa. Owner, name withheld. Brick, steel, 1 story, 100x100 feet, concrete foundations, slag roof, electric light. Work contemplated.

Factory, Forest Court, Pa., $20,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, M. F. Howley, 233 Wyoming avenue, Scranton, Pa. Brick, 2 stories, 33x90 feet, slag roof, pine floors, electric light, hollow metal sash. Owner will take general bids.

Residence, Unionville, Pa. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, W. Plunkett Stewart, Haverford, Pa. Brick, 2½ stories, slate roof. Plans in progress. Too early for details.

Pattern Shop, Lebanon, Pa., $30,000. Architects, Ritcher Lee Co., 32 South Seventeenth street, Philadelphia. Owners, Lebanon Steel Foundry Co., Lebanon, Pa. Concrete, 3 stories, 55x110 feet, slag roof, steam heating, electric lighting. Plans in progress. Details undecided.

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Pennsylvania Contracts Awarded

Silk Mill Machine Shop, Dorranceton, Pa., $271,000. Architect, G. S. Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Dorranceton Silk Co., A. H. Bleckley, on premises. Brick, reinforced concrete, 2 stories, 140x160 feet, 40x60 feet, slag roof, stone foundations, concrete and maple floors, electric light, rolled steel sash and skylights, elevators, roof ventilators. Contract awarded to Stewart Const. Co., Wilkes-Barre, Pa.

Silk Mill (add.), Kingston, Pa., $50,000. Architect, G. S. Welch, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Crane Bros., Kingston, Pa. Slow burning construction, 2 stories, 50x120 feet, concrete founadtions, slag roof, maple floors, electric lighting, hollow metal sash and skylights, roof ventilators, fire doors. Cntract awarded to Sheppard Const. Co., Wilkes-Barre, Pa.

Nurses' Home, Nanticoke, Pa. Architects, McCormick & French, Second National Bank, Wilkes-Barre. Owner, State Hospital, Dr. S. G. Heyer, Nanticoke, Pa. Brick, 2 stories, 36x93 feet, stone foundations, slate roof, pine floors, electric light. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

Fire House (alt.), Hazleton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Pioneer Fire Co., Hazleton, Pa. Interior and exterior work, brick, steel and wood work, plumbing. Contract awarded to George Echert, Hazleton, Pa.

School, Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, School Board, Lower Merion, Pa. Brick, terra cotta, steel and cut stone, 1 story, 62x131 feet, asbestos asphalt roof, maple floors, metal lath, iron work, stone foundations, rolled steel skylights (plumbing, heating and electric work reserved). Contract awarded to Bowden Const. Co., 1713 Sansom street, Philadelphia.

Office Building (add.) Birdsboro, Pa. Architect, private plans. Owners, Birdsboro Foundry and Machine Co., Birdsboro, Pa. Brick and steel, 1 story, 43x51 feet, slag roof, maple floors, stone foundations, heating extension, electric lighting, iron work. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building, Philadelphia.

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New Jersey Construction News

Storage Room, Federal street, Camden, N. J. Architect, Department of Construction, 105 Reade street, New York City. Owners, Union News Co., New York City. Asbestos shingle, 1 story, 20x14 feet, asbestos shingle roof, concrete floors, metal lath, stone foundations, plastering. Owners have received bids.

Bank and Residence (alt. and add.), Third and Pine streets, Camden, N. J. Architects, Custer & Gill, 504 Market street, Camden, N. J. Owners, First Italian National Bank, care of Antonio Depaolo, on premises. Brick, 2 stories, 68x8 feet, stone foundations, slag roof, tile floors, hot water heating, electric lighting, tile work, interior and exterior alterations. Architect ready for bids due May 17th.

Residence, Riverton, N. J. Architect, John F. Harbeson, 1535 Chestnut street, Philadelphia. Owner, Mrs. W. J. Curtis, Jr., Riverton, N. J. Hollow tile and stucco, 2½ stories, 32x90 feet, slate roof, oak floors, stone foundations, hot water heat, electric lighting, tile work, metal weather strips. Architect taking bids. Geo. W. Shaner, Palmyra, N. J.; Joseph F. Lowden, Riverton, N. J., and J. S. Rogers Co., Moorestown, N. J., are figuring.

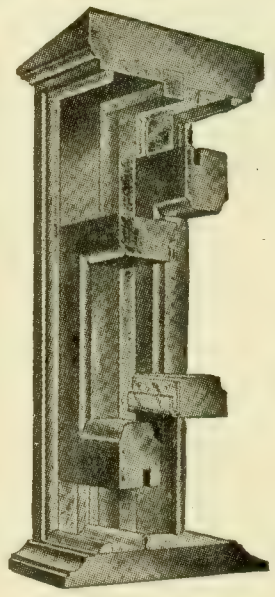
School, Haddon Heights, N. J. Architect, Henry C. Pelton, 35 West Thirty-ninth street, New York City. Owners, St. Rose's Roman Catholic Church, care of Rev. A. Quinlan, on premises. Brick, stone and steel, 2 stories, 133x49 feet, slag roof, etc. Architect taking bids due May 13th. Melody & Son, 1328 Race street, Philadelphia, additional bidder.

Garage and Farm Buildings, Far Hills, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner's name withheld. Stone and hollow tile, slate roof, cement and plank floors. Plans in progress.

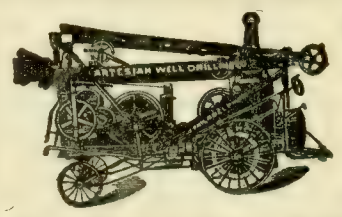
Theatre, Trenton, N. J. Architect, W. Slack, St. Regis Theatre Building, Trenton, N. J. Owners, Perry Street Theatre, Trenton, N. J. Brick, steel and concrete, 1 story, 100x178 feet, slag roof, electric light, tile and marble work, hollow metal skylights, fire doors, ventilators. Owner is building.

Residence, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, F. Elliott, Bordentown, N. J. Frame, 2½ stories, 36x36 feet, slate roof, pine floors, hot water heat, electric light, tile work. Owner will build.

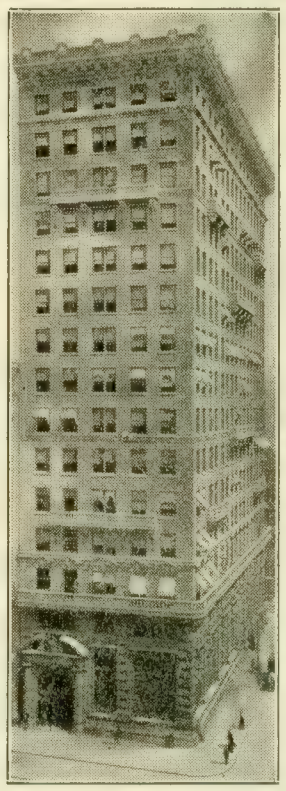
Septic Tank, Vineland, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of architect. Reinforced concrete, 12 inches, 45x52


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feet, new sewerage, cast iron and terra cotta work. Architect ready for bids this week.

Store House, Vineland, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, Home for Feeble Minded Women, care of Dr. Madeline Howell, Vineland, N. J. Brick, 1 story and basement, 81x49 feet, concrete foundations, slate roof, electric light, cold storage plant, reinforced concrete stairs. Architect ready for bids.

Residence, Trenton, N. J., $45,000. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owner, Charles Maddock, care of Thos. Maddock's Sons, Ewing and Perry streets, Trenton, N. J. Stone, 2½ stories, 36x66 feet, stone foundations, tile roof, hardwood floors, electric lighting, tile and marble work. Architect taking bids, due May 17th. Wm. Ivins, H. H. Morris, I. H. Clayton, and Fred Parker, all of Trenton, N. J., are figuring.

Theatre and Stores, East State street, Trenton, N. J. Architect, Walter Hankin, S. Warren street, Trenton, N. J. Owner's name withheld. Brick and terra cotta, 1 story, 44x150 feet, slag roof, electric light, tile work. Plans in progress.

New Jersey Contracts Awarded

Residence (alt. and add.), 834 Broadway, Camden, N. J. Architect, Thomas Stephens, Temple Building, Camden, N. J. Owner, St. Peter and St. Paul's Church, care of Rev. B. Hennig, 553 Spruce street, Camden, N. J. Brick, hardwood floors, general interior alterations, plumbing. Contract awarded to John Welsh, 525 Clinton street, Camden, N. J.

Parochial School, Fourth and Jasper streets, Camden, N. J., $20,000. Architects, Berry & Cummiskey, Real Estate Trust Building, Philadelphia. Owners, Sacred Heart Roman Catholic Church, care of Rev. J. B. McCloskey, Camden, N. J. Brick, concrete and steel, 2 stories, 85x48 feet, slag roof, concrete and pine floors, hollow tile, iron work, stone foundations (electric lighting, plumbing, heating and plastering reserved). Contract awarded to Melody & Son, 1322 Race street, Philadelphia.

Church, Arctic avenue, Atlantic City, N. J. Architect, Frank R. Watson, 1311 Walnut street, Philadelphia. Owners, St. Augustine's Protestant Episcopal Church, Atlantic City, N. J. Hollow tile and plaster, 1 story, 131x35 feet, stone foundations, slate roof, maple and concrete floors, steam heating, electric lighting, tile roof, steel sash, iron work, waterproofing. Contract awarded to H. John Homan, Middle City Building, Philadelphia.

Sewage Disposal Plant, Pleasantville, N. J. Architects, Remington & Vosbury, Camden, N. J. Owners, City of Pleasantville, Pleasantville, N. J. Concrete, brick and stucco, 1 story, 33x20 feet, and 20x12 feet, asbestos shingle roof, concrete floors, metal lath, ventilators, stone foundations, iron work (electric work reserved). Contract for plant awarded to Seaman, Letzkus & Smith, Stone Harbor, N. . Contracts for Items Nos. 3 and 4 awarded to Simpson, Brown & Co., 90 West street, New York City.

Rectory, Greenwood avenue, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, St. James' Church, Rev. Mr. Rogers, on premises. Brick and frame, 2½ stories, 25x32 feet, stone foundations, slate roof, hardwood floors, hot air heat, electric light, tile work. Contract awarded to Steven Clayton, Trenton, N. J.

Theatre (alts.), 14 South Broad street, Trenton, N. J., $300,000. Architect, private plans. Owners, Trenton Theatre, care of builder. New balcony, concrete floors, general alterations. Contract awarded to Wm. Kleman, First National Bank Building, Trenton, N. J.

Garage (add.), 205 West State street, Trenton, N. J., $3,500. Owner, A. S. Turford, on premises. Stone, brick, 1 story, 11x26 feet, slate roof, reinforced concrete. Contract awarded to Barlow & Burgess, Trenton, N. J.

Miscellaneous Construction News

School Building, Goodyear, Conn. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Board of Education, Killingtown, Conn. Concrete, brick and stone, 2 stories, 148x92 feet. Owners taking bids. W. H. Hamlyn & Son, Inc., Providence, R. I.; Oliver L. Willard, Williamantic, Conn., and M. T. Keane, Lonsdale, R. I., are figuring.

Administration Building, Chapel and Dormitory, Severville, Tenn. Associate architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia, and James Russell Har-

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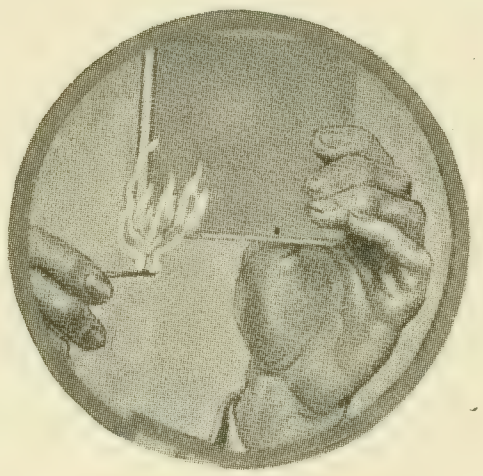
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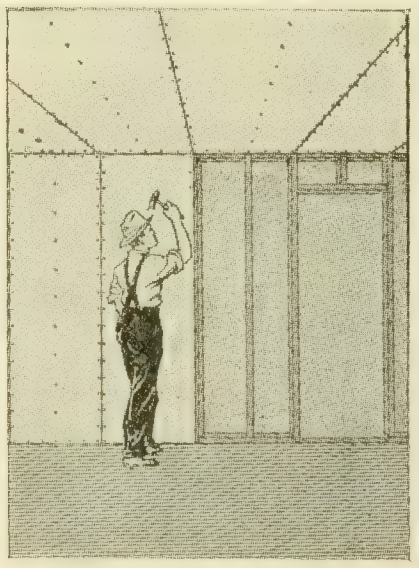
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Look for chances to use Sheetrock on alteration and repair work. Sheetrock comes in broad, flat compact sections, 32 and 48 inch widths—ceiling high. It cuts, saws and nails like soft pine.

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ris, 1123 Boradway, New York City. Brick and stone, 2 stories, 61x122 feet, 1 story, 50x80 feet, and 2 stories, 50x150 feet. Plans in progress. Ready for bids in one month.

Store Building, 2102 Monument street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Morris Klein, on premises. Brick, 3 stories, 18x90 feet, slag roof, brick foundations, pine floors, hot water heating, electric lighting, tile and marble work, plate glass. Plans in progress.

Sales and Service Building, Charlotte, N. C. Architect, Albert Kahn, Detroit, Mich. Owner, C. C. Coddington, Charlotte, N. C. Brick, concrete and steel, 6 stories, 198x90 feet, composition roof, tile, concrete and cork tile floors, hollow tile, metal lath, dampproofing, marble and terrazzo work, rolled steel sash and skylights, kalamein doors, iron stairs, ornamental iron work. Arcihtect has received bids.

School Building (Liberal Arts), Boulder, Colorado. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, University of Colorado, engineer in charge, Professor W. C. Huntington, Boulder, Col. Stone and Indiana limestone, 2 and 3 stories, 50x275 feet, Spanish tile roof, concrete and maple floors, hollow tile, metal lath, steam heating, electric lighting, finnestra sash, wood and fireproof doors. Engineer is taking sub-bids.

Bank Building and Office, Greenville, S. C. Architects, Mowbray & Uffinger, 56 Liberty street, New York City. Owners, Woodside Securities Co., Greenville, S. C. Architects have received bids.

Building, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Standard Brewery, Baltimore, Md. Brick, 1 story, 23x45 feet, metal roof, concrete foundations to accommodate ice manufacturing machinery, electric lighting, cement floors. Architect will be ready for bids in a few days.

Power House, Reynolda, Winston- Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Mrs. K. J. Reynolds, Reynolda, N. C. Hollow tile and stucco, 2 stories, 100x42 feet, slag roof, cement floors, electric lighting. Contract awarded to Loughlin F. McNeill, Philadelphia (care of architect).

Residence, Mars Hill, Me. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner's name withheld. Frame, 2½ stories, 30x60 feet, shingle roof, hardwood floors, tile and marble work, hot water heating, electric lighting. Plans in progress.

Plant, Wilmington, Del., $750,000. Architects, DuPont Eng. Corp., DuPont Building, Wilmington, Del. Owners, Fibre Silk Co., care of Leonard Yerkes, DuPont Building, Wilmington, Del. Brick, 1 and 3 stories. Plans in progress. Too early for details.

Factory Power Plant, Baltimore, Md. Architect, J. O. Hunt, 114 North Montgomery avenue, Trenton, N. J. Owners, Delion Tire and Rubber Co. of Maryland, 131 Mt. Royal avenue, Baltimore, Md. Brick, steel and concrete, 1 and 2 stories, 90x400 deet, 60x70 feet, electric light, hollow metal sash, roof ventilators. Plans in progress.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 5, 1920. Sealed Proposals will be received at this office until 3 P. M., May 20, 1920, and then opened for mezzanine floor and metal shelving in sub-basement store room of United States Treasury Annex, Washington, D. C., in accordance with this specification and drawing No. SA-401, copies of which may be had at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 3, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 1, 1920, for furnishing the labor required in the construction, complete (except mechanical equipment), with materials that will be furnished by the Government, of a laundry building for the United States marine hospital at New York, N. Y. (Stapleton). Drawings and specifications may be obtained from the Supervising Chief Engineer, Room 731, United States Custom House, New York, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 3, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 1, 1920, for the mechanical equipment of the laundry building for the United States Marine Hospital at New York, N. Y. (Stapleton), in accordance with drawings and specifications, copies of which may be obtained from the Supervising Chief Engineer, Room No. 731, United States Custom House, New York, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

Portland Cement, Sand or Gravel by carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

(Continued from Page 456.)

and build now, whether it be a modest cottage, or an apartment house, or a factory. High prices are here to stay for a decade anyhow, and the longer we hold off from building the acuter will become the demand and prices will go still higher. But in closing I would like to sound one word of caution both to owner and architect and engineer—avoid specials. Remember the mills and factories have got all they can do to try to supply regular stock material, and so every time you demand and specify a special you are delaying the completion of your project.

Morris & Erskine, architects, formerly at Crozer Building, Philadelphia, have moved their office to 1716 Cherry street, Philadelphia.

* * *

Benjamin Howell Lackey announces that he has opened offices at 509 Federal street, Camden, N. J., for the practice of architecture.

* * *

The members of the Builders' Exchange were fortunate in having as their guest on May 6th the Honorable J. Hampton Moore, Mayor of Philadelphia. Mr. Moore has been a member of the Exchange for years and was indeed most welcome at the luncheon. He gave an interesting talk about the present City Administration and emphasized the fact that he is desirous of having the Exchange co-operate with the present Administration and do all possible to expedite building and overcome the shortage of houses in Philadelphia. The Entertainment Committee is to be congratulated on procuring the Mayor as speaker and the Exchange should congratulate Mr. Thomas Armstrong on his success in being able to have the Mayor talk to the members.

* * *

When you receive this copy of the "Guide" close your desk and proceed at once to the Builders' Exchange so that you will be in time for the Annual Outing and Shad Dinner, which will be held Thursday, the 13th, at Mineral Springs Hotel, Willow Grove. The members of the Exchange will leave the Exchange Building at 1 o'clock and proceed in automobiles to Willow Grove. There will be ample room for everybody. Come out for a good time.

THE EVOLUTION OF BRICK.

One cannot study the history of the clayworking industry in this country without being impressed with the wonderful evolution that has taken place in connection with brick. In the pioneer days brick was brick, and the products in clay were in the main brick and tile. Today we have a wide range of products developing from the brick idea and a wonderful change in the brick product itself.

At first it was just brick; then came the distinction between what might be termed common brick and refractory brick, those having peculiar fire-resisting qualities. Later came the vitrified paving brick for sidewalks, streets and roads as an improved item for this purpose over the common, ordinary brick. Still later came the development of front and fancy brick, and out of this has grown up our great face brick industry.

Incidentally, an offshoot from the brickmaking is hollow tile, which was used primarily for inner walls and for fireproofing purposes around steel structure members, but which is now spreading out into the broad field of general wall construction.

The vitrified or street surfacing brick, plus the face and ornamental brick, plus the hollow building tile, make up an item the total of which today equals the total common brick production. Yet, when we go back and think it over, this all but a matter of evolution or development from common brick.

What is perhaps more directly interesting right now, however, is the process of evolution in common building brick during the present generation. Common brick making has undergone some wonderful changes from thirty or forty years ago. Practically everything made then would today be termed common brick, and quite a percentage of kiln turnout was soft burned and called salmon brick. Today we have reports of kiln burns ranging up to 95 and 98 per cent. perfect. This means there are practically no under-burned brick, and that in quality the poorest of the common brick today is superior to the best face brick used forty years ago.

Naturally under these conditions we have not only developed a great line of special face brick, but we have developed brickmaking to the point where it is a question if we can properly call any great percentage of our brick common brick in the light of what common brick was understood to mean a generation ago.

Sometimes we think there is no such thing as common brick any more, except a few scattered plants where modern ideas have not yet been applied to brick making and burning. In the majority of modern brick making institutions the common brick product has been so improved in the process of making and so much better burned that it is now a superior article.

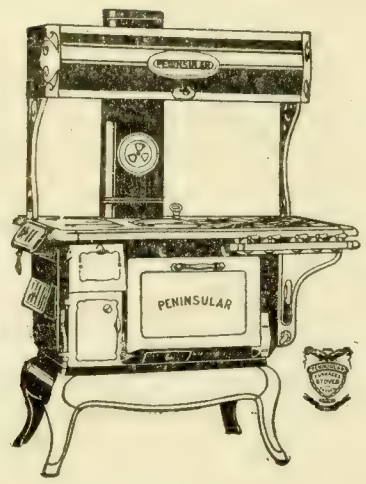
One going back through the history the past forty years in clayworking in this country is impressed with two things. One is that there has been a wonderful evolution in brick making, in which the common brick has become a number of items of uncommon quality. The other is that America today produces the best as well as the greatest line of clay products to be found anywyhere in the world. —*The Clay Worker.*

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.

NO LIEN CONTRACTS (PHILADELPHIA)

Date. Contractor.	Owner.	Building.	Location.
5/1—E. Allen Reeves	Hamilton Disston	Alteration on house	Rex. Ave., Chestnut Hill
5/1—West Phila. Cons. Co.	F. Feldman	Alt. and add.	Fortieth and Baltimore Ave.
5/3—A. Wilt & Sons	A. H. Geuting	Cabinet work	1230 Market St.
5/3—Neminosky & Shapiro	M. Selikovitch	Alt. and add.	127 North Twelfth St.
5/3—Lebowitz & Ostroff	Karanofsky & Son	Garage	419-421 Fitzwater St.
5/3—John P. Smith	Rev. D. J. Dougherty	Heating Plant	Twenty-eighth and Allegheny Ave.
5/3—D. F. Durkin	Rev. D. J. Dougherty	Plumbing	Twenty-eighth and Allegheny Ave.
5/4—John N. Gill & Co.	Miller N. Broad St. Stor. Co.	9-story building	Fifty-second St. and P. & B. O. R. R.
5/5—All Con. and Mat. Men	Martin Maloney	76 Houses	Arlington, between 54th and 55th Sts.
5/6—Liberty Cons. Co.	Benjamin E. Sattler	Alt. and add.	708 North Seventh St.
5/7—All Con. and Mat. Men	Robert Killough	18 Houses	Berkley St. and Pulaski Ave.
5/7—Charles Schnitzer	Louis Goldberg	Alt. and add	N. E. Cor. Seventeenth and South Sts.
5/7—H. H. Burroughs & Co.	Wm. L. Greenfield	Stair work	Belmont, above Conshohocken Ave.
5/7—Independent Aetna Sprinkler Co.	Hardwick & Magee Co.	Automatic Sprinkler	Seventh and Lehigh Ave.
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ORIGINAL COST OF *Carter Concrete* LOW—UPKEEP COST NEGLIGIBLE.

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One of our Engineers will help you in Concrete Problems and gladly give you an Estimate.

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A complete range of colors. Manufactured of vitrifying shale and fire clay. Our prices defy competition.

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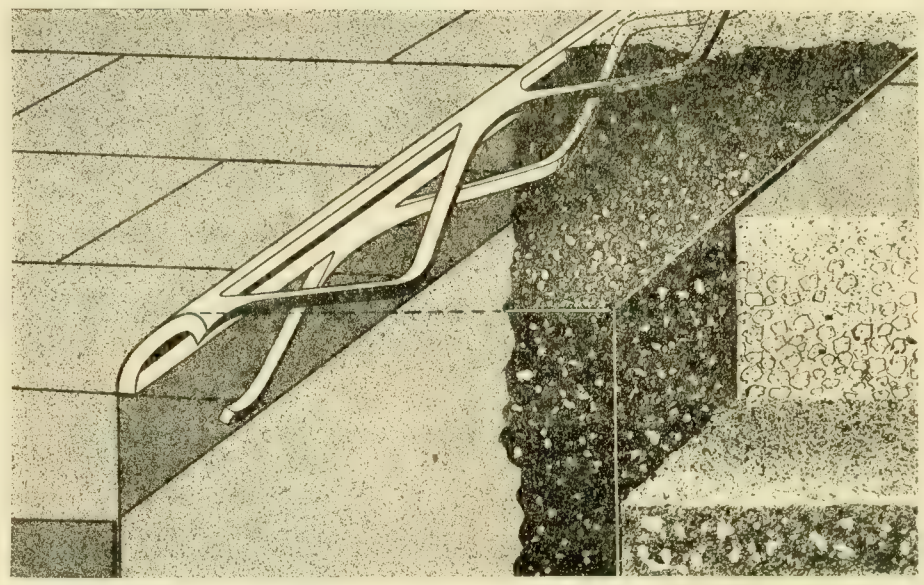
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Nicholas, A. J., & Co.....Bulletin Bldg., Phila.
Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

ARTESIAN WELL PUMPS.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BELTING
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Blue Print Shop.....1520 Sansom St., Phila.
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Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

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Pomeroy Const. Co. .....1609 Ranstead St., Phila.

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French, Samuel H., & Co. ..4th and York Sts., Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.

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France, David, Co. .....Tasker St. Wharf, Phila.
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Buchanan & Co., J. F.....1719 Chestnut St., Phila.

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Fairbanks Co., The.....7th and Arch Sts., Phila.

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Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
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Griffith, James F. .....424 Moyer St., Phila.

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Klein Stove Co. ....Front and Fairmount Ave., Phila.
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Morris Wheeler & Co....30th and Locust Sts., Phila.
Truscon Steel Co. .....Commonwealth Bldg., Phila.
Witherow Steel Co. .....417 Widener Bldg., Phila.

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Barrett Co., The.....New York and Philadelphia
Dietz, C. A. .....4740 Market St., Phila.

ROOFING SLATE.
Dietz, C. A. .....4740 Market St., Phila.
Emack Co., John D. .....Otis Bldg., Phila.

ROOFING TILE.
Dietz, C. A. .....4740 Market St., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

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Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Kensington Metal Co.....1612 N. 2nd St., Phila.

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Hammond, R. R., & Co.....Widener Bldg., Phila.

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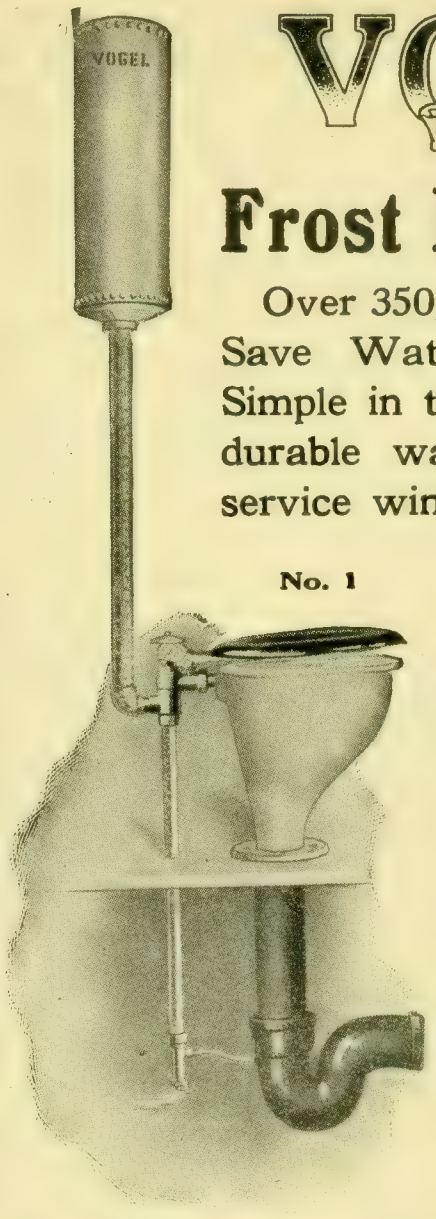
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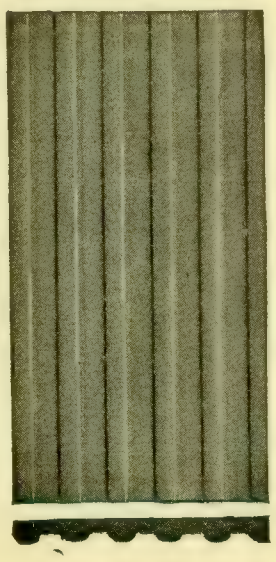
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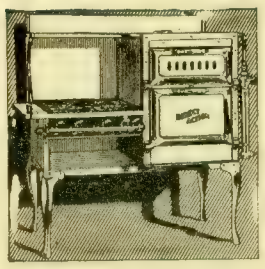
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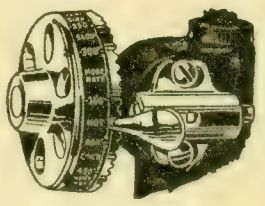
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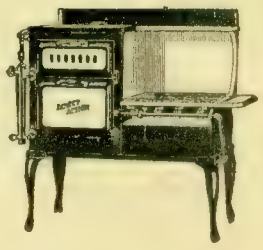
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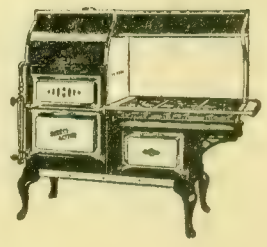
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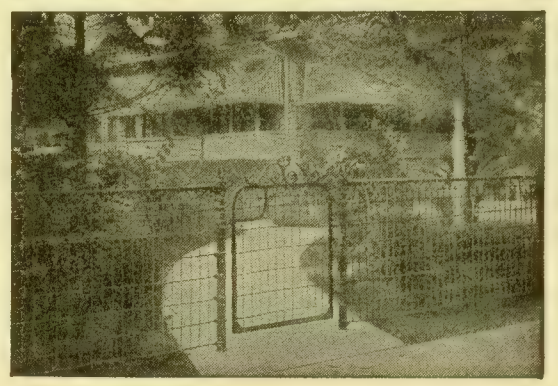
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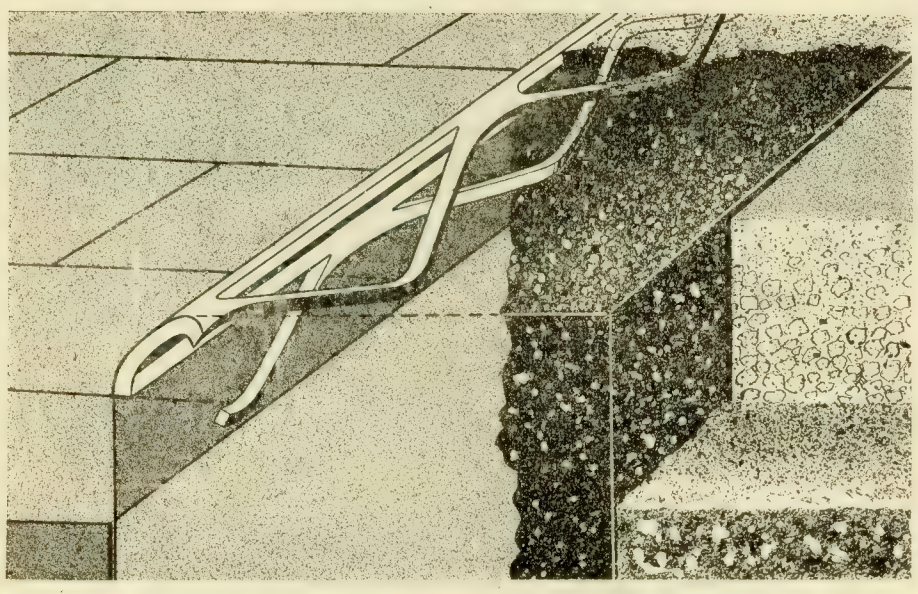
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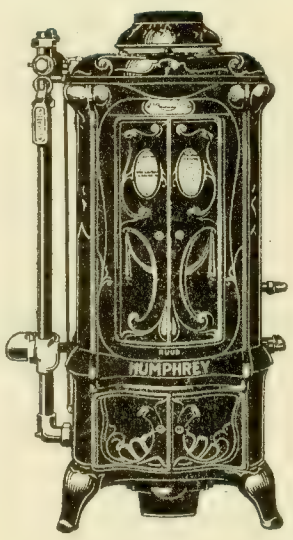


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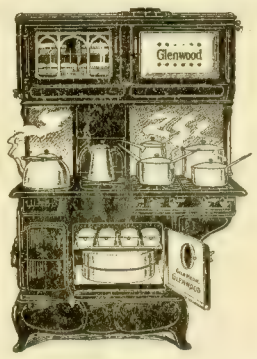
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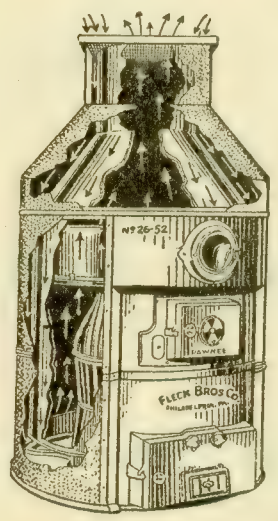


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BUILDERS' GUIDE

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Number 20

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May 19, 1920

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As The Editor Sees It

IN view of the very grave aspect of the housing situation throughout the country the work of the Committee on Community Planning of the American Institute of Architects is of particular interest at the present time.

John Irwin Bright, of Philadelphia, is chairman of the committee, which is composed of representative architects from all sections of the country. Mr. Bright's report of the Committee on Community Planning to the Fifty-third Annual Convention of the American Institute of Architects emphasizes the scope and importance of the work of this committee and prepares the way for the more detailed activities of this committee. Mr. Bright's report reads as follows:

The Committee on Community Planning begs leave to submit the following report:

The mandate of the Institute is specific on two points: First, to report on the housing policy of the United States Government during the war; second, to analyze the Canadian effort to supply houses.

The United States Government housing has shown us the difference between houses and communities built for service and those built for private profit; also the difference between a group plan developed by unrelated individual effort and one conceived in the interest of the entire community.

An intelligent direction is necessary in any housing enterprise. In the case of the Government, it produced houses whose main characteristics are quality, usefulness, and beauty. If the same degree of intelligent direction had been exercised by speculative interests it would have resulted in a subordination of all desirable features to the necessity of earning a profit on the investment. It is significant that we speak of the "necessity" of a profit and the "desirability" of good living conditions, because that state of mind is responsible for the indifference with which we view the disappearance, one by one, of all the desirable features of the home. When all is lost but private profit, we refuse to build, for that is the one thing which we cannot bring ourselves to surrender.

The government, however, was able to do this, but the elimination of gain was, after all a negative virtue and taken alone teaches but half the story. The positive virtue is the development of the community plan in which the welfare of all was considered before the supposed rights of any one individual. Housing produced by private enterprise, working primarily for a profit, cannot regard the social advantages of its customers as of equal value to the financial return on capital and it is therefore plain that if people wish to live under such admirable conditions as exist in most of these villages, the speculative builder must be barred out.

The physical arrangement of the houses is a distinct advance over the usual prewar type. This was only to be expected, as never before was the national effort so concentrated on this prbolem, enlisting the best minds of the country in the effort to design and erect pleasing houses. Generally speaking, the houses were but two rooms deep ,and when the detached house was not possible, the rows were short and architecturally pleasing. It is to be hoped that these object lessons will exercise a stimulating influence on our future domestic architecture.

Unfortunately, these efforts have taught us nothing on the questions of land, finance, and management for the very good reason that the face of the government has been set against any study of these questions. As far as can now be seen, the houses will be sold to individuals and the values created by the community itself will ultimately revert to the individual or the speculator.

The Candian Scheme

In order to make it possible to build houses in Canada, its government has established a credit of $25,000,000 to be advanced to the different provinces. The entire fund has been distributed and will be used within one year, Ontario ,on account of its greater population, receiving the largest proportion. The provinces lend to municipalities, which in turn lend to limited dividend housing companies or to individuals ,the amount of the advance

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and the security varying with the circumstances. Each borrower in turn pays 5 per cent. for the money and there is no overhead charge except in the actual designing and construction of the house. The loan runs from twenty to thirty years and is repaid in monthly installments. In addition to these enactments, all of the provinces appropriated funds of their own for housing, although the credits are smaller than those furnished by the Canadian Government.

With the exception of the Province of Quebec, where an effort is being made to introduce the community-owned town, the theory of individual ownership and sale govern this experiment. The price of the house and the land is mentioned in the laws, but since the date of its promulgation, rising construction costs have made it necessary to somewhat lower the standards. It remains to be seen what will happen when, in the future, a dollar will buy more building that it does to-day, for the price of the land will then become a factor. While the land may be expropriated, it must be paid for at its market value and there is nothing in the law to prevent its mounting to a level which will again stifle production. This is a situation which has wrecked many housing schemes in the past. s

In furnishing state aid to the prospective house builders the Government has tried to avoid entering into competition with private operators. In return for its lower rate of interest, it demands a certain standard of construction and design which is calculated to absorb any saving made in the use of Government money.

The active work of the committee during the last year has been confined chiefly to two things. First, the publishing of a report on the platting of areas for dwelling use, and second, the organizing of a lecture tour on housing illustrated by moving pictures.

The committee has received and answered a great number of questions on community planning coming from cities and Chambers of Commerce. The result of this work has been negative as without exception the questioners have acted as though under the impression that a community plan was a physical commodity mailable upon request. The efforts of the chairman and other members of the committee to present the question in a different light has in no case succeeded.

The general tenor of these requests seems to demonstrate that there is as yet no general public realization of the issues at stake. This can only be corrected by a campaign of education, and in order to make a commencement on this line, the lecture tour has been undertaken. The committee hopes that the Institute will appropriate a sufficient sum of money for its continuance The committee recommends that in presenting to the public the idea of community planning, a certain definite theory should be expounded. It is not enough to show pictures of charming houses. It should be taught that to obtain the result, certain changes conneced with our ideas on finance and social rights must be effected. Not until industry is organized to produce socially useful goods can there be a real answer to the building problem, but without expressing itself on this question the Institute could perform a great public service in concentrating attention on immediate evils. The public expects its architects to advise it rightly on problems connected with plan and building, and while rendering this service, we should fit ourselves to discuss the whole question. In this category, the protection of the value created by the community itself should receive the first consideration. This has been called inaccurately the unearned increment and the faulty definition has largely been the reason why its significance has not been generally comprehended. Increment is not unearned. It is earned, but, to use a bookkeeping expression, we have not credited the asset to the proper account. The neglect to balance it against its creative forces has permitted the impression that it is spontaneous in its origin and its rape is the right of the discoverer. It is the same logic which allows otherwise honest people to appropriate, without a qualm of conscience, the personal belongings forgotten in public conveyances.

We should make it clear that all of the value created by the commuity should revert to it. On the other hand, it is no less fitting that the prior right of the individual to the values he created should receive recognition. The fair adustment of these claims, conflicting at times, is a matter of judgment and not of principle, and ,equitably arrived at, will go far toward the solution of the land question. The Institute should urge that laws on taxation should be so formed that land speculation be eliminated. In this connection it should be pointed out that the general progress of recent town planning acts, in this and foreign countries, is along these lines.

The committee recommends that the doctrines be disseminated by means of the Journal, the public press and by pamphlets in addition to the lecture tour already under way.

The committee urges its successor to undertake the compilation and critique of town planning and zoning laws throughout the world in order that the usefulness and the trend of these ideas may be presented to the public in a concise form.

The committee does not consider its report conclusive. It will be content if the event shows that it has supplied to its successor a working instrument for future achievement.

The committee wishes to acknowledge the invaluable assistance which has been given it by the Editor of the Journal. Its work would have been rendered vastly more difficult without his sympathy and advice.

NO WOODEN HOUSES IN GREAT BRITAIN.

A while back there was quite a lot of newspaper talk about Great Britain turning to wood as a means for solving the housing problem in shorter time and at lower cost than if the usual method was followed of building with brick for permanency. Now there comes a report which indicates that this was mere talk, and that the people of the old country do not take kindly to flimsy or temporary building.

A recent consular report from England says that not much personal interest has been aroused in the subject of wooden building but there is being aroused interest in the modern type of American dwelling. It is pointed out in this report that the cost of building homes of the ordinary English style is now more than double what it was before the war and there is no likelihood of these prices coming down in the near future. In support of the claim for increased building cost a tabulation of current building material prices is given in which the best brick is now listed as $19.83 a thousand as compared to $8.88 just before the war.

There is incidental mention that the Leeds Corporation has decided to erect concrete houses, and there are various lines of relief suggested, but from a study of the reports, one is moved to the conclusion that the great era of wooden building prophesied for England will not materialize. What is more likely to happen is that the English builders will take on some of the modern ideas in American home architecture, modify them to suit their own notions and needs and build in the main with brick and other hard material because even with the present advantage in price these are lower and cheaper in the long run than lumber at current prices.

J. H. Squires, Director of Personnel, Dupont Company, Wilmington, Del., will speak to the members of the Philadelphia Builders' Exchange, Thursday, May 27th, at the luncheon at 1.30 at the Bellevue-Stratford.

Mr. Squires is particularly qualified to talk on human nature, as he has had charge of employing most of the men taken into the Dupont Works.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Stores and Garage (alt. and add.), 250 South Camac street, Philadelphia. Architects, Magaziner & Eberhard, 611 Chestnut street, Philadelphia. Owner, Morris Wenger, 250 South Camac street, Philadelphia. Brick and steel, 2 stories, 86x50 feet, slag roof, cement floors, metal lath, safety treads, roof ventilators, waterproofing, stone foundations, rolled steel sash, hollow metal skylights, iron stairs, ornamental iron work. Architects taking bids due May 22d. F. E. Wallace, 1220 Chancellor street; Ketcham & McQuade, 1029 Brown street; William R. Dougherty, 1610 Sansom street; A. R. Raff Cont. Co., 1635 Thompson street; Graham & Wells, 3649 Filbert street; Turner Const. Co., 1713 Sansom street; Jacob Myers & Sons Co., Witherspoon Building, Philadelphia, are figuring.

Store Building (alts.), 2258 North Front street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, S. J. Lyons, 2258 North Front street, Philadelphia. New front, brick work, carpentry, mill work, painting, glazing. Architect taking bids due May 21st. Stewart Bros., 2526 North Orkney street; Matthew Morrison, 2322 North Howard street; Smith-Hardican Co., 1606 Cherry street; Bushnell Bros., 2146 East Norris street, and M. Gold & Co., 1643 North Thirty-third street, are figuring.

Synagogue, Broad and Courtland streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Beth Shalom Congregation, care of architect. Brick and terra cotta, 1 story, 100x75 feet, stone foundations, slag roof, steam heating, electric lighting. Architect has received bids.

Garage (alts. and add.), 1209 Stratford avenue, Melrose Park, Philadelphia. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owner, William H. Laughery, on premises. Carpentry, mill work, painting, glazing, cement floors, electric lighting, changing stable into garage. Architect taking bids due May 20th. Frank G. Stewart, 1619 Sansom street; Thomas C. Trafford, 1613 Sansom street, and E. Allen Reeves, Abington, Pa., are figuring.

Church (fire repairs), Sixteenth and Jefferson streets, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owners, Messiah Lutheran Church, on premises. Brick work, tile work, slate roof, carpentry, mill work, plastering, metal lath, hardware (plumbing, electric work, heat reserved). Architect has received bids.

Garage and Service Building, 2504 North Broad street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, name withheld. Brick, 1 story and balcony, 177x25 feet, slag roof, cement, mineral and pine floors, tile and marble work, stone foundations, hollow metal skylights, iron work (elevators, plumbing, heating and electric work reserved). Architects have received bids.

Elevated Stations, Cont. No. 575, Frankford Elevated, Front and Berks streets, Philadelphia. Architect, private plans. Owner, City of Philaedlphia, Department of City Transit, Director William S. Twining, 1211 Chestnut street, Philadelphia. Reinforced concrete and steel. Cont. No. 578, plumbing; Cont. No. 579, electrical work. Owners taking bids due June 1st at noon.

Restaurant (alts.), 36 South Fifteenth street, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Kugler's Restaurant, on premises. General renovation of second floor, structural steel, interior alterations. Plans in progress.

Garage, Mount Airy, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, name withheld. Hollow tile and stucco, 1 story, 20x20 feet, shingle roof, cement floors, hot water heating, electric lighting. Plans in progress. Architect will be ready for bids in a week.

Garage, Darien and Poplar streets, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, Keystone Supply & Mfg. Co., 927 North Ninth street. Brick, 1 story, 56x66 feet, slag roof, cement floors, stone foundations, iron work (heating, plumbing and electric work reserved(. Architect has received bids.

Church (basement), Southeast Corner Torresdale avenue and Howell street, $12,000. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, Wissinoming Presbyterian Church, on premises. Stone, 1 story, 45x73 feet, slag roof, steam heat, electric lighting, tile and pine floors. Architect will supervise construction and is taking subbids.

Residence (alts.), Oak Lane avenue, Oak Lane, Philadelphia. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, name withheld. Brick and stucco, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress.

Residence (alts.), Chestnut Hill, Philadelphia. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, Daniel Hebard, Chestnut Hill, Philadelphia. Painting, mill work, hot water heating, electric lighting, carpentry, plumbing. Architect has received bids.

Sales and Service Building, 2207-11 Chestnut street, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Reynold Greenberg, Morris Building, Philadelphia. Limestone, brick and concrete, 2 stories and mezzanine, 69½x120 feet. Plans in progress. Architect will be ready for bids in ten days.

Residence, Sixth and Chelten avenue, Oak Lane, Philadelphia. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, G. A. Schoenhut, 1930 East Cumberland street, Philadelphia. Stone, 2½ stories, 32x49 feet, slate roof, oak and pine floors, tile work, stone foundations (heating, electric lighting and plumbing reserved). Architect has received bids.

Residence (alts.), Fifty-eighth and Ashland avenue, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Charles Koros, 1229 South Fifty-seventh street, Philadelphia. Carpentry, mill work, plumbing, electric work, hot water heat, hardware. Architect has received bids.

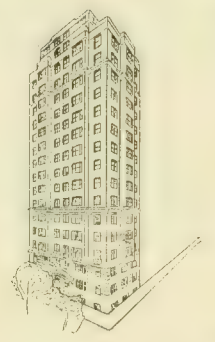
Residence (alts.), 1229 South Fifty-seventh street, Philadelphia. Owner, Charles Koros, on premises. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Carpentry and mill work, plumbing, electric lighting, hot water heat, painting, glazing. Architect has received bids.

Store Building (alts. and add.), 6163 Woodland avenue, Philadelphia. Architects, Greisler-Abramson Co., Lafayette Building, Philadelphia. Owner, Herman Switt, on premises. Architects ready for bids. William R. Dougherty, 1610 Sansom street, will figure.

Factory, Eighth and Locust streets, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, William Goldstein, care of architect. Brick, 1 story, 166x72 feet, slag roof, maple and composition floors, stone foundations, steam heat, rolled steel sash, hollow metal skylights, dampproofing, iron work, metal lath. Architect has received bids.

Residence (alts.), 28 West Walnut Lane, Philadelphia. Architect, Mantle Fielding,

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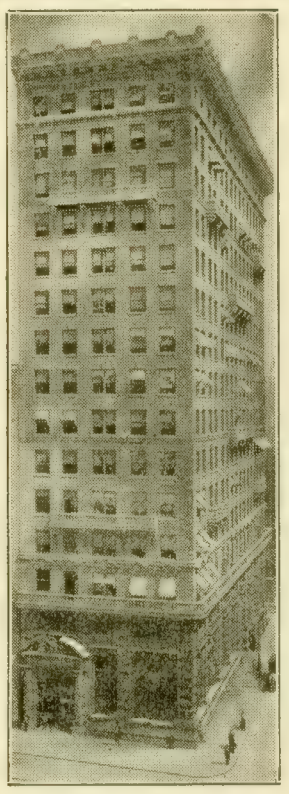
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520 Walnut street, Philadelphia. Owner, R. D. Kerman, on premises. Plastering, mill work, oak floors, painting, hardware, glazing (plumbing, heating and electric work reserved). Architect has received bids.

Apartments (alts.), 30-36 South Fifteenth street, Philadelphia, $9,000. Architect, private plans. Owners, Philadelphia Central Realty Co., on premises. General alterations and fire escapes. Owners will build.

Residences (11), Walnut street and Farragut street, Philadelphia, $77,000. Architect, private plans. Owner, Jacob Feldman, 5016 Parkside avenue, Philadelphia. Brick, 2 stories, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owner will build.

Residence, Northwest Corner Farragut and Walnut streets, Philadelphia, $8,000. Architect, private plans. Owner, Jacob Feldman, 5016 Parkside avenue, Philadelphia. Brick, 2 stories, 20x59 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Owner will build.

Storage (alts.), 1536 North American street, Philadelphia, $3,000. Architect, private plans. Owner, A. M. Collins Mfg. Co., American and Oxford streets, Philadelphia. General alterations. Owners will build.

Residences (14), Germantown avenue, North Pelham road, Philadelphia, $98,000. Architect, private plans. Owner, Robert Killough, Wayne and Duval streets, Philadelphia. Brick, 2 stories, 16x32 feet, 13x10 feet, slag roof, hot water heat, electric lighting, hardwood floors, tile work. Owner will build.

Residences (31), Ruscomb street, West of Second street, Philadelphia, $155,000. Architect, private plans. Owner, E. P. Stahl, Second and Duncannon streets, Philadelphia. Brick, 2 stories, 15x28 feet, 12x12 feet, slag roof, hot water heat, electric lighting, hardwood floors, tile work. Owner will build.

Store and Apartments (alts. and add.), 1010 Girard avenue, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Samuel Cooper, 1010 Girard avenue, Philadelphia. Brick, 2 stories, 18x7 feet, slag roof, electric lighting. Owner will build.

Residence and Garage, Sixty-sixth avenue and Lawnton street, $13,500. Architect, private plans. Owner, William J. Baltz, 5409 North Eleventh street, Philadelphia. Brick, 2 stories, 33x29 feet, and 1 story, 20x21 feet, slate roof, hot water heating, electric lighting, hardwood floors, cement work. Owner will build.

Church, Sunday School and Manse, Broad and Wyoming avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Zion P. E. Church, care of Rev. Charles Henry Long, 4644 Old York Road. Stone, carious sizes, slate roof, steam heating, electric lighting. Plans in progress.

Workshop, 500 West Lindley avenue, Philadelphia, $4,500. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owners, Lindley Auto Repair Shop, 502 West Lindley avenue. Brick, 1 story, 40x45 feet, rubberoid roof, hot water heating, electric lighting, cement floors, steel sash, rolled steel skylights. Owners will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Column Foundations, Front street, near Arch street, Philadelphia, $35,900. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Contract awarded to Brown-King Const. Co., Commercial Trust Building.

Elevated Station, Tioga street, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, Director William S. Twining, 1211 Chestnut street, Philadelphia. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

Steel Superstructure, Cont. No. 508, Frankford Elevated, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Contract awarded to Phoenix Bridge Co., Franklin Erust Building, $272,436.

Factory (add. and fire repairs), State road and Deveraux street, $500,000. Architect, private plans. Owners, Gillinder & Son, on premises. Concrete, 2 stories, slag roof, steam heating, electric lighting, cement floors, rolled steel sash, elevators. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Warehouse (add.), 324 North Third street, Philadelphia, $50,000. Architect, private plans. Owners, Penn Leather Co., on premises. Brick, slow burning, third story add., 40x170 feet, slag roof, maple floors, stone foundations, rolled steel sash and skylights, fire doors, iron work. Contract awarded to George Kessler Cont. Co., Drexel Building, Philadelphia.

Building (alts. and add.), 521 Arch street, Philadelphia, $25,000. Architect, private plans. Owner, Edw. L. Hand & Co., on premises. Brick, 1 story, 30x100 feet, slag roof, maple floors, stone foundations, steam heating, electric lighting. Contract awarded to Geo. Kessler Cont. Co., Drexel Building, Philadelphia.

Garage, Marvine street and Columbia avenue, Philadelphia, $15,000. Architect, private plans. Owners, Keystone Telephone Co., 135 South Second street, Philadelphia. Brick, 1 story, 63x80 feet, slag roof, cement floors, rolled steel sash, iron work. Contract awarded to Geo. Kessler Cont. Co., Drexel Building, Philadelphia.

Garage, 1201 Fillmore street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Robert C. Boger, on premises. Brick, 1 story, 22x22 feet, slag roof, concrete foundations, cement floor, electric lighting, rolling steel door. Contract awarded to Geo. Rimer, 4842 Hawthorne street, Philadelphia.

Bank (add.), 116 South Third street, Philadelphia, $8,000. Architect, private plans. Owners, Girard National Bank, on premises. Brick, second story add., 10x40 feet, slag

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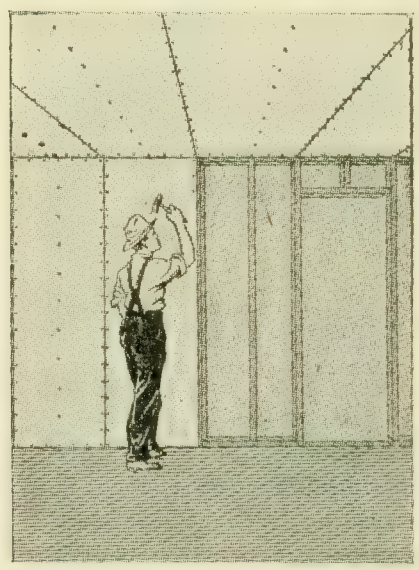
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roof. Contract awarded to William J. Gruhler Co., 219 East High street, Germantown.

Store (alts.), 1215 Chestnut street, Philadelphia, $3,500. Architect, private plans. Owners, Mawson & DeMany, on premises. Steel beams, tile floor. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Storage Building and Store, 2865 Kensington avenue, Philadelphia, $8,000. Architect, private plans. Owner, I. Elsensove, 1945 East Monmouth street, Philadelphia. Brick, 2 stories, 19x82 feet, slag roof, pine and cement floors, electric lighting. Contract awarded to Harry Robb, 3038 Agate street, Philadelphia.

Garage, 6448 North Thirteenth street, Philadelphia, $5,000. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Samuel J. Lyons, 2258 North Front street, Philadelphia. Brick, 1 story, 20x20 feet, slate roof, concrete foundation, hot water heat, electric lighting, iron work, cement and pine floors. Contract awarded to M. Gold & Co., 1643 North Thirty-third street, Philadelphia.

Store and Dwelling (alts. and add.), Northwest Corner Franklin street and Girard avenue, Philadelphia, $7,000. Architect, private plans. Owner, Abraham Fixman, on premises. Brick, third story add., 20x13 feet, slag roof, electric lighting, new partitions, general alterations. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

Factory (tank support), Southeast Corner Sixth and Columbia avenue, $5,000. Architect, private plans. Owners, Needles Broker Co., on premises. Tank support, steel tower, 30,000-gallon capacity. Contrate awarded to M. Melody & Son, 1322 Race street, Philadelphia.

Garage (add.), 439-35 Lombard street, Philadelphia, $4,000. Architect, private plans. Owner, N. Levi, 429 Lombard street, Philadelphia. Brick, 2 stories, 16x21½ feet, and 2 stories, 16x28 feet, slag roof, cement work, electric lighting. Owner will build.

Factory (alts.), Northeast Corner Howard and Oxford streets, $4,000. Architect, private plans. Owners, Valkone Dye & Finishing Co., Mascher and Turner streets. New elevator shaft, brick and concrete. Contract awarded to Wilson Ruff Co., Franklin Trust Building.

Market House (alts. and add.), 345-47 South Front street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Levit & Woorman, on premises. General alterations and additions. Contract awarded to Nicholas Nardy Co., 763 South Thirteenth street, Philadelphia.

Garage, West side York road, South of Luzerne street, $3,000. Architect, private plans. Owner, A. W. McElroy, 3644 North Camac street, Philadelphia. Brick, 1 story, 40x16 feet, slag roof, cement floor, electric light. Contract awarded to Parrish & Jackson, 229 North Sixteenth street, Philadelphia.

Store and Office, Northwest Corner Broad and Parrish streets, Philadelphia, $17,000. Architect, private plans. Owner, Katherine Mulherin, 730 South Fifth street, Philadelphia. Brick, 2 stories, 20x97 feet, slag roof, steam heat, electric light. Contract awarded to Harry Miller, 427 Catharine street, Philadelphia.

Storage Building (alts. and add.), Northwest Corner Fifth and Kater streets, $5,000. Architect, private plans. Owner, Mr. Miller, on premises. Brick, 1 story, 3x18 feet, slag roof, electric lighting, general alterations. Contract awarded to H. Lublin, 523 Gerritt street, Philadelphia.

Storage Shed, Noble street, East of Seventh street, Philadelphia, $2,600. Architect, private plans. Owner, General Electric Co., on premises. Iron, 1 story, 48x14½ feet. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

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Residence and Offices (alts.), 5937 Chestnut street, Philadelphia, $4,500. Architect, private plans. Owner, Stanley Ezekiel, 1325 South Fifty-eighth street, Philadelphia. Brick, 2 stories, 16x16 feet, carpentry, brick work, iron work. Contract awarded to J. D. Fisher, 5414 Thompson street, Philadelphia.

Church (alts.), Fitzwater and Gray's Ferry road, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, St. Anthony de Padua Roman Catholic Church, on premises. Brick and stone work, plastering, carpentry and alterations. Contract awarded to McLaughlin & McNally, Eighty-first and Suffolk avenue.

Residence (alts.), Fox Chase, Philadelphia. Architect, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, S. S. Stokes, Harpers, Pa. Stone, 2 story add., 14x18 feet, shingle roof (heating reserved). Contract awarded to E. Allen Reeves, Abington, Pa.

Balcony, Small Arms Ammunition Dept., Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Structural steel and concrete, concrete floors. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street, Phila delphia.

Store and Loft Building, southeast corner of Broad and Race streets, Philadelphia, $750,000. Architect, private plans. Owners, Hurley Motor Co., on premises. Brick and steel, 15 stories, 58x130 feet, slag roof, steam heating, electric lighting, cement floors, dampproofing, steel sash. Contract awarded to Wm. Steele & Sons Co., Sixteenth and Arch streets, Philadelphia.

Store and Restaurant (alts. and add.), 1508-12 Market street, $12,000. Architect, private plans. Owners, Horn & Hardart, on premises. Brick, 3 stories, 15x52 feet, slag roof, tile and marble work, electric lighting. Contract awarded to H. Rust, 19 South Eighth street, Philadelphia.

Restaurant (alts.), 121-125 Walnut street, Philadelphia, $10,000. Architect, private plans. Owner, Emmanuel Bookbinder, on premises. General alterations, tile and marble work, brick work, carpentry. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Manufacturing Building (fire repairs), 19-21 South Fourth street, $4,000. Architect, private plans. Owner, Morris Barsh, on premises. Millwork, carpentry, plumbing, papering, slag roof, electric lighting, cold water painting, gas fixtures. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Store and Dwelling (alts.), 612 Parrish st., Philadelphia, $3,500. Architect, private plans. Owner, Samuel Goodhart, 618 Parrish street, Philadelphia. General alterations. Contract warded to M. Rosenback, 709 Parrish street, Philadelphia.

Store (alts.), 15, 17, 19 North Tenth street, Philadelphia, $5,000. Architect, private plans. Owners, V. Steese & M. Fouse, 1426 South Front street, Philadelphia. Flush bulks, glazing, painting, hardwood floors. Contract awarded to Basch & Co., 1426 South Front street, Philadelphia.

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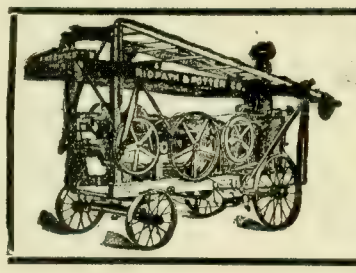


Painting Prices

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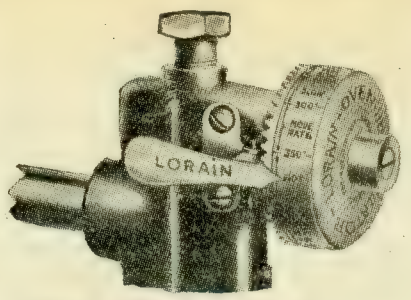


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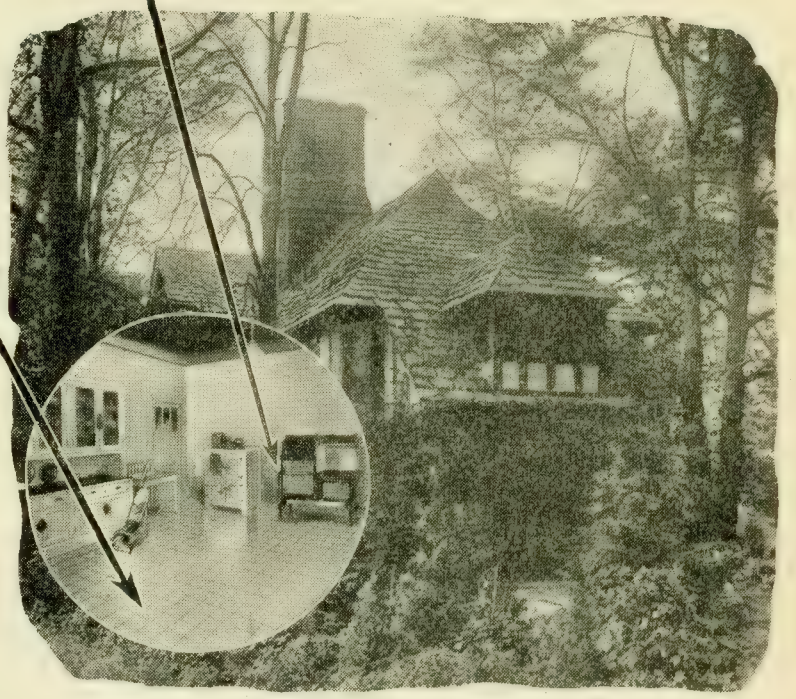
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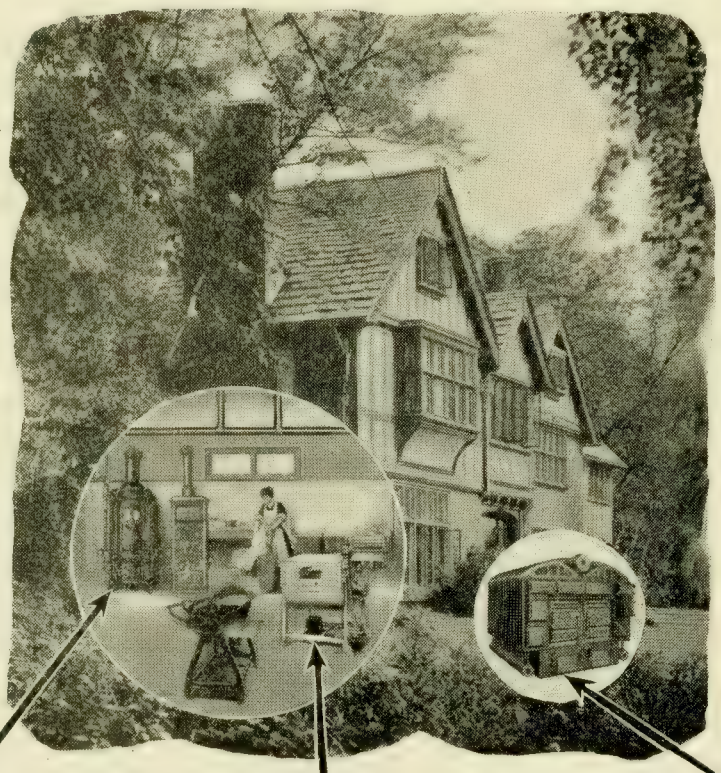
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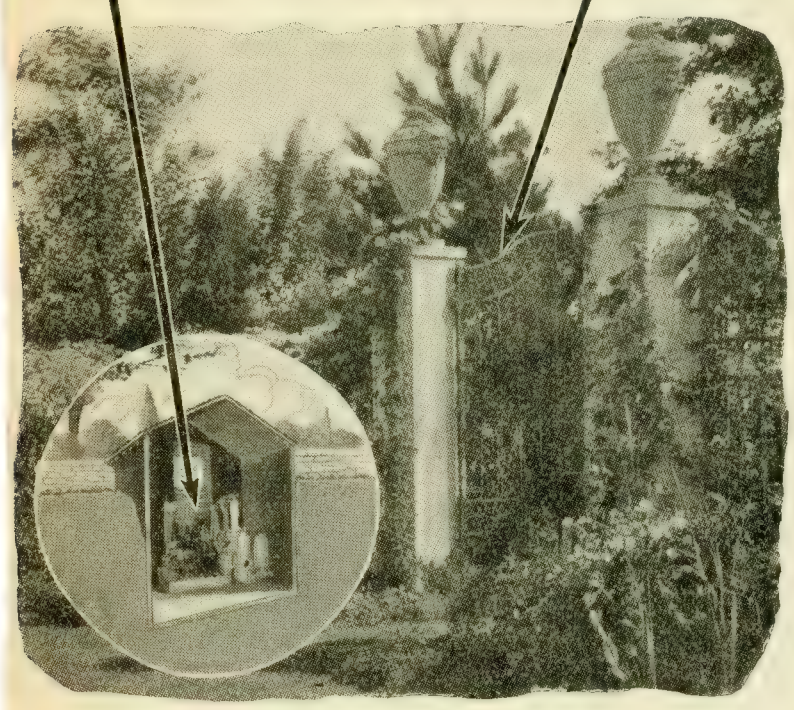
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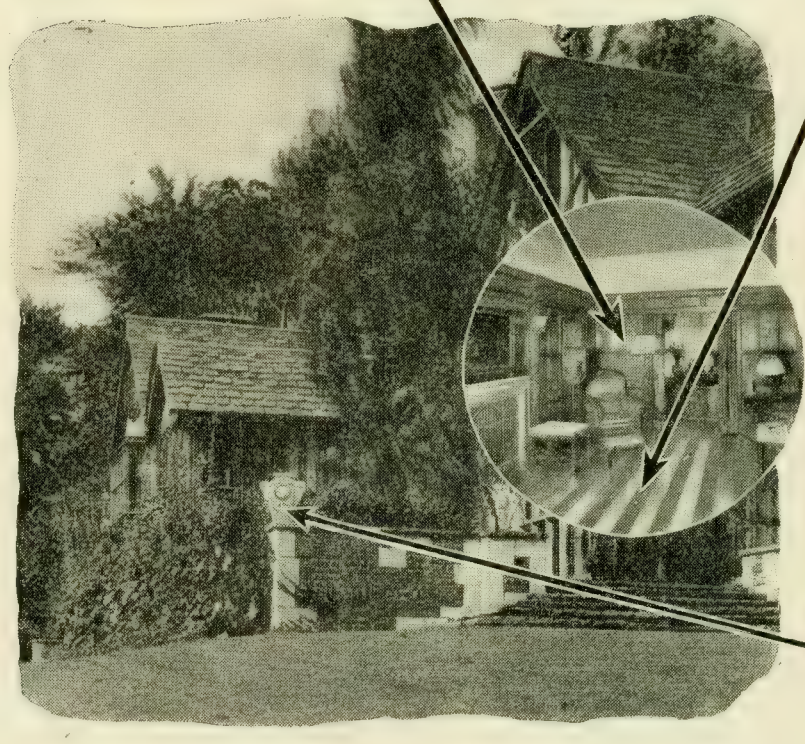
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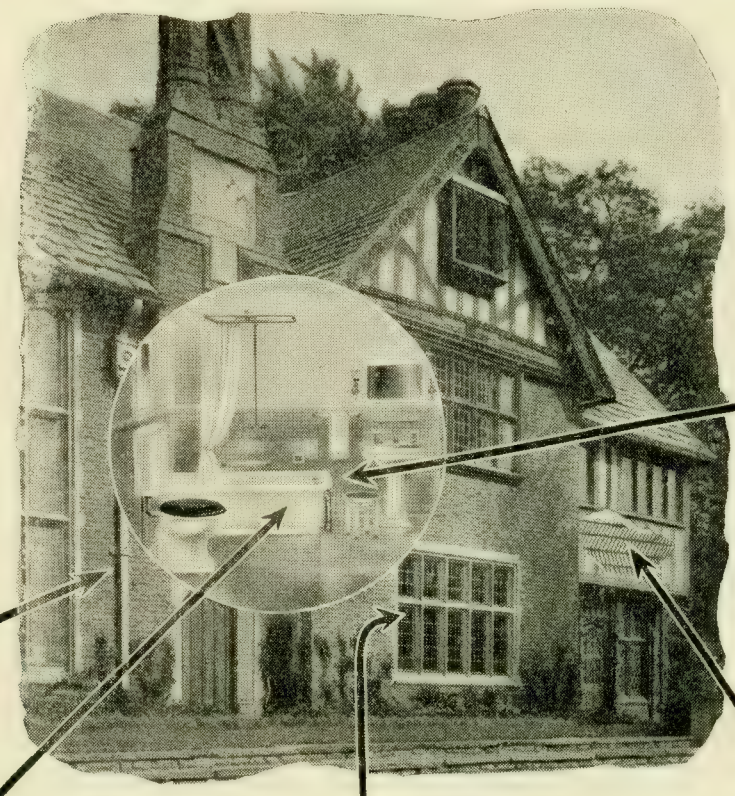




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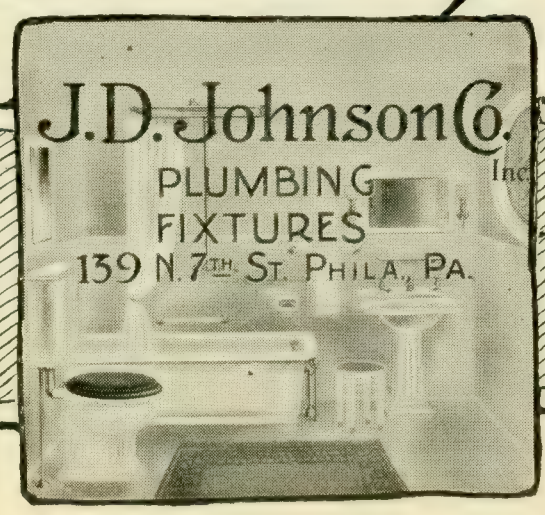
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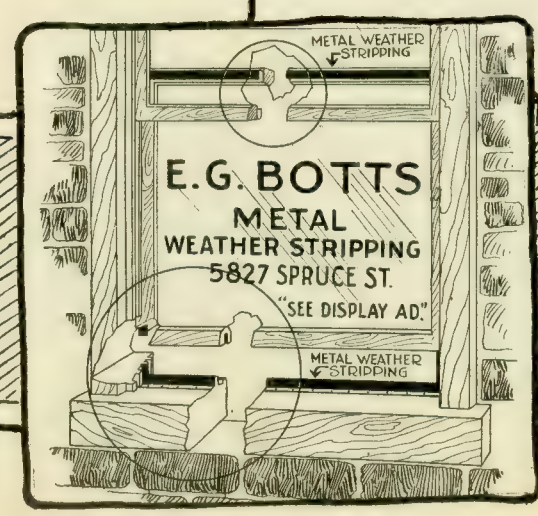






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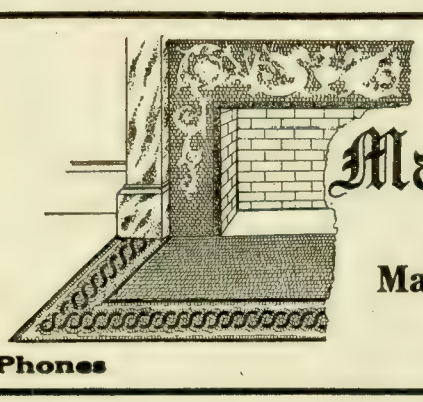
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Pennsylvania Construction News

Residence, Merion, Pa. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owner, William E. Hexamer, 1619 Chestnut street, Philadelphia. Frame and stone, 2½ stories, 32x58 feet, shingle roof, oak and pine floors, stone foundations, hot water heat, electric lighting, tile work. Architects taking bids due May 29th. John E. Kearney, 34 South Seventeenth street; Alan Scull, 4918 Osage avenue, Philadelphia; Charles L. Jenkin, Narberth, Pa.; L. S. Atherholt, Narberth, Pa.; L. B. Spencer, Ardmore, Pa.; Charles C. Pace, Merion, Pa., are figuring.

Theatre and Apartment Building, Allentown, Pa. Architect, Maurice E. Kressley, State College, Pa. Owners, Capitol Theatre Co., Allentown, Pa. Brick, steel and terra cotta, 4 stories, 120x60 feet, slag roof, cement, oak and tile floors, hollow tile, metal lath, hollow metal skylights, iron stairs, stone foundations, steam heat, electric light. Architect taking bids due May 21st. Standard Const. Co., 1713 Sansom street, Philadelphia, is figuring.

Residences (50), York, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, York Home Building Association, care of Max Grumbacher, York, Pa. Brick, 2 stories, 19x35 feet, concrete foundations, slag roof, pine floors, pipeless heating, electric lighting. Architect taking bids due June 1st. Hess ros., C. A. Boyer, S. Gladfelter, G. W. Gilbert and I. Reindollar, all of York, Pa., are figuring.

Store Rooms (add.), Penn street, Lancaster, Pa. Architect, 0. C. Urban, Woolworth Building, Lancaster, Pa. Owner, Watt & Shand, on premises. Brick and steel, 4 stories, 60x102 feet, slag roof, maple floors, heating extension, electric lighting, plate glass, elevators. Herman Wohlsen, Woolworth Building, Lancaster, Pa., is taking sub-bids.

Garage, Milton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, H. W. Chamberlain, Milton, Pa. Frame, 2 stories, 19x24 feet, shingle roof, pine and cement floors. Plans in progress. Will be ready for bids in two weeks.

School, Barren Hill, Pa. Architect, Edwin G. Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Whitemarsh Township, care of M. Strawbridge, 7 Main street, Norristown, Pa. Owners have received bids.

Apartment (add. and alt.), 822-24 Penn street, Reading, Pa. Architect, A. F. Smith, Sixth and Court streets, Reading, Pa. Owner, A. M. Kissinger, 826 Penn street, Reading, Pa. Brick and terra cotta, 4 stories, 40x71½ feet, slag roof, hardwood floors, electric light, tile work, rolled steel skylights. Architect has received bids.

Garage and Gardener's Cottage, Haverford, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Paul Gano, Haverford, Pa. Frame, 2½ stories, 34x23 feet, wing 20x35 feet, shingle roof, pine and cement floors, painting, glazing, mill work, stone foundations. Architect taking bids due as soon as possible from Pomeroy Const. Co., 1609 Ranstead street.

Bank Building, Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Merion Title & Trust Co., Merion, Pa. Brick and terra cotta, 1 story, 76x34 feet, slag roof, pine and terrazzo floors, metal lath, iron work, stone foundations (heating, electric lighting and plumb-

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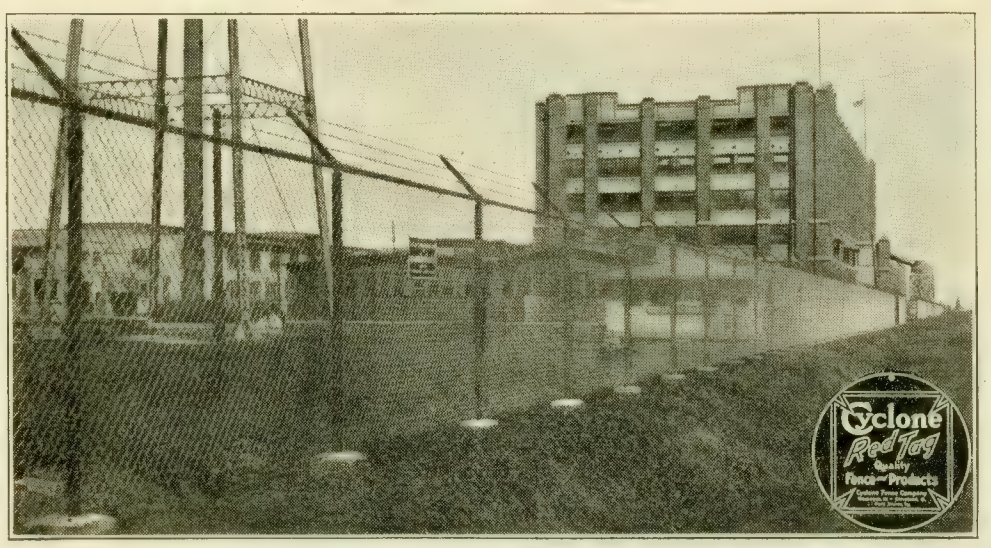
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ing reserved). Architects taking bids due May 21st. Graham & Wells, 3649 Filbert street; H. E. Baton, 1713 Sansom street, and R. C. Ballinger & Co., 218 North Thirteenth street, additional bidders.

Bank (alts. and add.), North Wales, Pa. Architect, Edwin G. Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, North Wales National Bank, North Wales, Pa. Stone, 2 story add., 23x27 feet, slate roof, pine floors, concrete vault, heating and lighting extensions. Architect has received bids.

Garage, Franklin street, Reading, Pa. Architect, A. A. Heilman, 225 North Eleventh street, Reading, Pa. Owner, L. M. Francis, 112 Franklin street, Reading, Pa. Brick, 1 story, 25x100 feet, concrete foundations, slag roof, concrete floors, electric light. Owner ready for sub-bids.

Residences (10), Kutztown, Pa. Architects, Huber & High, 11 North Fifth street, Reading, Pa. Owner, Home Building Association, William Bieber, secretary, on premises. Brick, 2 stories, 16x48 feet, stone foundations, tin roof, wood floors, hot air heat, electric light. Owner will sub-let.

Administration Building, Thirteenth and Exeter streets, Reading, $100,000. Architects, Muhlenberg Bros., 513 Penn street, Reading, Pa. Owners, Schuylkill Seminary, Dr. W. F. Teal, on premises. Brick and stone, 3 stories and basement, 49x121 feet, stone foundations, slate roof, concrete and hardwood floors, steam heat, electric light, tile work. Architects taking bids due as soon as possible. D. H. Hunt, Sam Sherman, C. H. Schlegel, Sharp Const. Co. and Beard Const. Co., all of Reading, Pa., are figuring.

Store and Apartment (alt. and add.), 17 South Fifth street, Reading, Pa., $10,000. Architects, Muhlenberg Bros., 513 Penn street, Reading, Pa. Owner, J. C. Bright, on premises. Brick, 4 stories and basement, 18x60 feet, interior alterations. Architect has received bids.

Residence, Manheim, Pa. Architect, Calvin Young, 520 Washington street, Reading, Pa. Owner, Mr. Fisher, 900 Franklin street, Reading, Pa. Stucco, 1½ stories, 30x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will take bids.

Church, Wyomissing, Pa. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, Lutheran Church of Atonement, Rev. J. L. Deaton, premises. Stone, 1 story and basement, 40x90 feet, stone foundations, slate roof, maple floors, vapor heat, electric light, tile work. Architect taking preliminary estimate.

Bank (alts.), Fleetwood, Pa. Architect, W. M. High, 11 North Fifth street, Reading, Pa. Owners, First National Bank of Fleetwood, Mr. Kelchner, Fleetwood, Pa. General alteratoins, second and third floor additions, maple floors, tile walls and floors, rolled steel vault. Owner taking sub-bids.

Fire House, Garrettford, Pa. Architect, private plans. Owners, Garrettford-Drexel Hill Fire Co., Garretford, Pa. Stone and stucco, 1½ stories, 36x60 feet, slate roof, cement and maple floors, stone foundation, electric lighting, iron work. Owners taking bids, due May 25th. Bowden Const. Co., 1713 Sansom street, Philadelphia, is figuring.

Bank and Office Building, Ardmore, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Merion Title and Trust Company, Ardmore, Pa. Stone, 1 story and basement. Architects taking bids, due May 21st. John E. Kearney, 34 South Seventeenth street; H. E. Grau Co., 1708 Sansom street, and Bowden Const. Co., 1713 Sansom street, Philadelphia, are figuring.

Nurses' Home, St. Joseph's Hospital, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Sisters of St. Joseph, St. Joseph's Hospital, Lancaster, Pa. Brick. Too early for details.

Factory and Office, 131 North Duke street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Union Savings System, care of Mr. Taylor, on premises. Brick and concrete, 1 story and basement, 120x27 feet, concrete foundations, slag roof, concrete floors, electric lighting, hollow metal sash, fire doors. Plans in progress.

Department Store (alts.), Lancaster, Pa. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Donovan Department Store, Lancaster, Pa. General interior alterations, flush bulks, store fixtures. Plans in progress. Owners will take bids.

Garage, Gettysburg, Pa. Architect, R. A. Stair, Guarantee Trust Building, York, Pa. Owner's name withheld. Brick, 1 story, 60x180 feet, concrete foundations, slag roof, concrete floors, electric light, gasoline storage. Plans in progress.

Church, Front and Windsor streets, Reading, Pa. Architects, Ritcher-Lee Co., 32 S. Seventeenth street, Philadelphia. Owners, Windsor Street M. E. congregation, Rev. H. R. Hoffman, 1090 Windsor street, Reading, Pa. Brick, 1 story and basement, 50x75 feet, stone foundations, slate roof. Preliminary plans in progress.

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J. Young, 226 North Sixth street, Reading, Pa. Owners, Zion Evangelical congregation, care of architect. Brick, 2 stories and basement, 60x50 feet, stone foundations, slate roof, electric light, tile work. Plans in progress.

Garage, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, A. Brehmer, Schuylkill and Hollenback avenues, Reading, Pa. Brick and concrete, 1 story, 36x57 feet, concrete foundations, composition roof, concrete floors, electric light. Plans in progress.

Temple, Lebanon, Pa. Architects, Ritcher-Lee Co., Fifth and Court streets, Reading, Pa. Owners, Knights of Malta Hall Association, Morris Erdman, secretary, Lebanon, Pa. Brick and stone, 3 stories and basement, 44x100 feet, stone foundations, maple floors, composition roof, steam heat, electric light, shower baths, bowling alley, ball room. Plans in progress.

Hospital (add.), Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Sisters of St. Joseph, St. Joseph's Hospital, Lancaster, Pa. Brick, 4 stories, 140x43 feet, 116x40 feet, stone foundations, slate roof, hardwood floors, electric light, tile, marble and terrazzo work, elevators, rolled steel skylights, roof ventilators. Architect ready for bids.

Residences (10), Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Farnum Co., care of architect. Brick, 2½ stories, 20x28 feet, slate roof, pine floors, hot air heating, electric lighting. Architect has received bids.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commisioner, State Capitol, Harrisburg, Pa. Low bidders on road work opened May 11, 1920.
Chester County, West Whiteland, U. Uwchlan, W. Vincent, E. Nantmeal and S. Coventry Townships, Route 147. Length, 64,591 feet. One course reinforced concrete. Wnston & Co., Pottstown, Pa., $907,859.70.

Chester County, Tradyffrin and Easttown Townships, Route 142. Length, 5,023 feet. Concrete foundation, including grading and drainage. Sutton Cont. Co., Inc., Philadelphia, $51,229.80.

Delaware County, Radnor, Marple and Haverford Townships, Route 225. Length, 27,635 feet. One course reinforced concrete and hillside vitrified brick. Union Paving Co., Thirtieth and Locust streets, Philadelphia, $397,002.11.

Erie County, Harbor Creek Township, Route 87. Length, 7,300 feet. One course reinforced concrete. Good Roads Const. Co., Erie, Pa., $83,839.50.

Erie County, Northeast Borough, Route 87. Length, 1,635 feet. Either bituminous surface course on a concrete foundation, or one course reinforced concrete. Warren Bros., Boston, Mass., $42,669.53.

McKean County, Foster Township, Route 96. Length, 6,188 feet. Either one course reinforced concrete or vitrified brick. C. E. Weed, Inc., Albany, N. Y., $122,655.30.

Northampton County, Williams Township, Route, 156. Length, 34,904 feet. One course reinforced concrete. Frank L. Cohen, Inc., Buffalo, N. Y., $29,358.

Schuylkill County, Blythe and East Norwegian Townships, Machanicsville, Port Carbon, New Philadelphia and Middleport Boroughs, Route 162. Length, 38,315 feet. One course reinforced concrete. Hangan & Risser, Lebanon, Pa., $558,754.60.

Somerset County, Elklick Township and Salisbury Borough, Route 15. Length 27,967 feet. One course reinforced concrete. Keller & Ferner, Somerset, Pa., $427,009.24.

Susquehanna County, North Milford Township and North Milford Borough, Routes 9 and 10. Length, 18,564 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Springs Co., Scranton, Pa., $430,235.14.

Venango County, Sandy Creek and French Creek Townships, Route 208. Length, 19,033. Macadam on Telford base and hillside vitrified brick. Martin Dolan, Jamestown, N. Y., $205,297.32.

York County, Windsor, Springettsburg and Spring Garden Townships, Route 332. Length, 17,538 feet. One course reinforced concrete. F. A. & F. Wagman Co., Dallastown,Pa., $214,697.82.

Bedford County, Snake Spring and West Providence Townships. Length, 2,300 feet. E. H. & L. A. Brua, Hollidaysburg, Pa., $71,548.65.

Women's Dormitory, Huntingdon, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Juniata College, Huntingdon, Pa. Brick and limestone. Will be ready for bids in a few days.

Hotel, Phillipsburg, Pa. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owners, Philipsburg Hotel Co., Philopsburg, Pa. Brick, stone and concrete, 6 stories, 78x100 feet, concrete roof, concrete floors, stone foundations, steam heating, elec-

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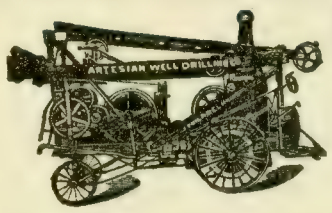
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School Building, Cochranville, Chester, Co., Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, West Fallowfield Township, care of Mr. Wm. Bock, County Superintendent, West Chester, Pa. Stone and brick. Preliminary plans in progress.

Theatres, Stores and Offices, Tenth and Penn streets, Reading, Pa. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Wilmer & Vincent, 1451 Broadway, New York City. Preliminary plans being drawn. Too early for details.

Residence (alts.), Yardley, Pa. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owner, Wm. Seammel, care of architect. General interior alterations. Plans in progress.

Residence, East End, Harrisburg, Pa. Architect, C. P. Lappley, 206 Market street, Harrisburg, Pa. Owner, E. W. Evans, 2345 Derry street, Harrisburg, Pa. Stucco, 2 stories, 25x45 feet, concrete foundations, shingle roof, hardwood floors, steam heating, electric lighting, tile work. Owner will take sub-bids.

Garage, Eleventh and Market streets, Harrisburg, Pa. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owners, Conover & Wolf, 13 Howard street, Harrisburg, Pa. Brick and concrete, 2 stories, 67x 1108 feet, concrete foundations, slag roof, reinforced concrete floors, steam heating, electric lighting, rolled steel sash. Owner is building.

Bank, Highspire, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Highspire State Bank, care of architect. Brick and frame, 1 story, 50x30 feet, concrete foundations, asphalt roof, pine floors, vapor heating, electric lighting. Owner will build.

Factory Plant, Harrisburg, Pa. Architect, H. C. Kain, Chestnut street, Harrisburg, Pa. Owners, Hunter Motor Co., care of architect. Too early for details.

Factory (alts. and add.), New Cumberland, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, J. C. Herman Co., on premises. Brick, general interior and exterior alterations. Plans in progress.

High School (add.), Walnut street, Harrisburg, Pa., $40,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Board of Education, care of D. D. Hemmelbaugh, 121 Chestnut street, Harrisburg, Pa. Brick, 4 stories, 80x200 feet, stone foundations, slate roof, hardwood floors, electric lighting, rolled steel skylights, roof ventilators. Plans in progress.

Residence, North Second street, Harrisburg, Pa. Architect, C. P. Lappley, 206 Market street, Harrisburg, Pa. Owner, Wm. Stackpole, Telegraph Building, Harrisburg, Pa. Stucco, 2½ stories, 25x35 feet, stone foundations, shingle roof, hardwood floors, steam heating, electric lighting, tile work. Plans in progress.

School, Penn Township, Pa. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owners, Penn Township School Board, care of W. O. Myers, Shippensburg, Pa. Brick, 1 story, 75x140 feet, stone foundations, slate roof, maple floors, electric light. Architect ready for bids, due May 24th.

School (add.), Fifth and Mantangue streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, care of D. Hammelbank, Harrisburg, Pa. Brick, reinforced concrete, 3 stories, 2 wings, slag roof, hardwood floors, electric lighting, tile work. Owner will be ready for bids in one week.

Pennsylvania Contracts Awarded

Lodge Building, Ninth and Welsh streets, Chester, Pa., $450,000. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, Tall Cedars of Lebanon, Penn Forest, No. 21, 604 Ninth street, Chester, Pa. Brick, granite and steel, 3 stories and mezzanine, 102x61 feet, slag roof, terrazzo and maple floors, hollow tile, metal lath, roof ventilators, dampproofing, iron work, iron stairs, hollow metal doors and sash, marble work, steam heat, electric light, stone foundations. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Residences (30), Gettysburg, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, Gettysburg Realty and Housing Co., Gettysburg, Pa. Brick, 2 stories, 34x40 feet, slag and asbestos shingle roof, pine floors, hot air heating, electric lighting. Contract awarded to Shamokin Lumber Co., Shamokin, Pa.

Residence, Red Lion, Pa. Architects, Gimmel & Billmeyer, Rossmiller Building, York, Pa. Owner, Mr. Purd Neff, Red Lion, Pa. Stucco, 2 stories, 49x32 feet, stone foundations, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Mr. Smith, Red Lion, Pa.

Residence, Mt. Penn, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Mrs. Clara Pabst, Ninth and Washington streets, Reading, Pa. Plaster, 2½ stories, 34x36 feet, cedar shingle roof, pine floors, hot water heating, electric lighting, tile work. Contract awarded to Sweitzer Bros., Mt. Penn, Reading, Pa.

Factory, Schuylkill Haven, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, R. J. Hoffman, Inc., on premises. Factory construction, 3 stories, 50x 100 feet, concrete foundations, slag roof, pine floors, steam heat, electric light, metal lath, elevators, roof ventilators, hollow metal sash, fire doors. Contract awarded to Paul Noffin, Schuylkill Haven, Pa.

School (add.), 153 North Fourth street, Reading, Pa. Architect, A. A. Heilman, 225 North Eleventh street, Reading, Pa. Owners, Keystone Institute, on premises. Brick, 3 stories, 97x32 feet, concrete foundations, slag roof, concrete floors, electric light, ornamental iron work. Contract awarded to Beard Const. Co., Reading, Pa.

Garage, Cedar and Court streets, Reading, Pa. Architect, Calvin Young, 520 Washington street, Reading, Pa. Owners, Merchants' Auto Service Co., Mr. Bowman, 424 Court street, Reading, Pa. Reinforced concrete, 3 stories, 90x115 feet, concrete foundations, slag roof, cement and wood floors, steam heat, electric light, rolled steel sash and skylights, fire doors, elevators, roof ventilators. Contract awarded to Focht & Son, Reading, Pa.

Garage, Wynnewood, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner's name withheld. Hollow tile and stucco, 1 story, 21x26 feet, shingle roof, cement floors, stone foundations, electric lighting, plumbing. Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Houses (25), Lock Haven, Pa. Architect, L. P. Lappley, 206 Market street, Harrisburg, Pa. Owners, Lock Haven Home Building Association, care of C. K. Germno, Lock Haven, Pa. Frame, 2 stories, 25x25 feet, shingle roof, pine floors, pipeless heating, electric lighting. Contract awarded to George Lidlow, Lock Haven, Pa.

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Laundry, Laurelton, Pa. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owners, State of Pennsylvania, Board of Managers, Village for Feeble Minded Women, care of Miss Nora P. Brown, president, Laurelton, Pa. Brick, 1½ stories, 35x72 feet, slag roof, electric lighting, cement floors, pine floors. Contract awarded to Pursley & Zon Neida, Laurelton, Pa.

New Jersey Construction News

Residence (alts. and add.), Morristown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner's name withheld. Frame, third story addition, 60x30 feet, shingle roof, hot water heating, electric lighting. Plans in progress.

Residence, Westville, N. J. Architect, Walter F. Price, 136 South Fourth street, Philadelphia. Owner, Henry W. Leeds, Westville and Almonesson Roads, Westville, N. J. Frame, 2 stories, 26x26 feet, shingle roof, electric lighting, pine floors. Owner is ready for bids.

Store Room, Vineland, N. J. Architect, Francis H. Bent, Trenton, N. J. Owners, State Institution for Feeble Minded Women, Vineland, N. J. Brick and stone, 1½ stories, 48x81 feet, asphalt shingle roof, stone foundations, iron work, cement floors. Architect taking bids, due May 25th. Standard Const. Co., 1713 Sansom street, Philadelphia, is figuring.

Trade Building (add.), Bordentown, N. J. Architect, Francis H. Bent, Trenton, N. J. Owners, Manual Training Industrial School, Bordentown, N. J. Brick, 1 story, 41x110 feet, slag roof, concrete floors, stone foundations, rolled steel sash, hollow metal skylights, iron work (heating and electric work reserved). Owners taking bids, due May 25th. Standard Const. Co., 1713 Sansom street, Philadelphia, is figuring.

Factory, Irvington, N. J. Architect, John T. Simpson, 622 Essex Building, Newark, N. J. Owner, Vreeland Motor Co., Irvington, N. J. Brick, terra cotta, steel and concrete, 1 story, 142x281 feet, asbestos built up roof, wood block and tile floors, marble work, hollow metal sash, rolled steel skylights, fire doors, iron stairs, iron work, stone foundations, mechanical warm air heating. Architect has received bids.

Hotel (alts.) to Stores and Apartments, Yorkship Village, N . J. Architect, private plans. Owners, Fairview Realty Co., Yorkship Village, N. J. General alterations, flush bulks, carpentry, millwork, steam heat, plastering. Owners have received bids.

Septic Tank, Vineland, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of architect. Reinforced concrete, 12 feet high, 45x52 feet, new sewerage, cast iron and terra cotta work. Architect taking bids, due May 25th. W. W. Baggs, 40 Landis avenue, Vineland, N. J.; George I. Robinson, 37-39 East Twenty-eighth street, and E. L. Wagner, 320 Fifth avenue, both of New York, are figuring.

Club House (alts. and add.), 315 Cooper street, Camden, N. J. Architect, Wm. W. Sharpley, 1713 Sansom street, Philadelphia. Owner, Camden Club, care of Charles K. Haddon, care of Victor Talking Machine Co., Camden, N. J. Brick and stone, 3 stories, 25x100 feet. Plans in progress.

Bank, Clementon, N. J. Architects, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, National Bank, Clementon, N. J. Hollow tile and concrete, 1 story, 3 x42 feet, slag roof, stone foundations, steam heating, tile work. Plans in progress.

Store, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Crs. Wallace, Trenton, N. J., care of architect. Brick, 2 stories, 110x1 feet, slag roof, electric lighting. Plans in progress.

Garage and Sun Parlor, Ivy Court, Trenton, N. J. Architect, J. O. Hunt, 114 North Montgomery street, Trenton, N. J. Owner, Henry A. Ludeke, on premises. Brick and concrete, 2 stories, 18x21 feet, shingle roof, concrete floors, electric light. Architect will be ready for bids this week.

Factory (add.), Fair street, Trenton, N. J. Architect, J. O. Hunt, 114 North Montgomery street, Trenton, N. J. Owner, J. E. Thropp, Greenwood avenue, Trenton, N. J. Brick, 1 story, 23x20 feet, slag roof, wood floors, plumbing. Plans ready for bids.

Police Station (alts. and add.), Chancery street, Trenton, N. J., $100,000. Architect, J. O. Hunt, 114 Montgomery avenue, Trenton, N. J. Owners, City of Trenton, care of Geo. LaBar, City Commissioner, City Hall, Trenton, N. J. Steel, concrete, fireproof, 3 stories and basement, 0x90 feet, concrete roof and floors, vacuum steam heat, electric light. rolled steel sash and skylights, fire doors, steel cells, roof ventilators, metal window guards, iron stairs, ornamental iron work (electric work, plumbing, heating and jail equipment reserved-. rAchitect ready for bids, due May 28th. Deposit of $25.00 required.

Workship, Bordentown, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, Manual Training and Industrial School for Colored Youths. Concrete, hollow tile, stucco, 110x42 feet, stone foundations, galvanized iron roof, pine floors, hollow metal sash. Architect taking bids, due May 25th. Fenimore & Firth, Bordentown, N. J.; C. Y. Barlow and T. Day, Trenton, N. J., and Standard Const. Co., 1713 Sansom street, Philadelphia, are figuring.

New Jersey Contracts Awarded

Residence, South Orange, N. J. Architect, C. A. Zeigler, Bailey Building, Philadelphia. Owner, M. S. Swenson, South Orange, N. J. Stone, 2½ stories, 35x110 feet, slate roof, oak floors, stone foundations, hot water heating, electric lighting. Contract awarded to Leithgow, 79 King street, New York City.

Bank, Elmer, N. J. Architect. Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, First National Bank, Elmer, N. J. Stone, 1 story and mezzanine, 29x52 feet, slag roof, pine floors, stone foundations, electric lighting (heating reserved). Contract awarded to Graham & Wells, 3649 Filbert street, Philadelphia.

Delaware Construction News

Store and Apartment, 814 King street, Wilmington, Del., $42,000. Architect, J. Canning, Jr., Lodge Building, Wilmington, Del. Owner, Dr. I. Kreshtool, 835 Market street, Wilmington, Del. Brick, 3 stories, 23x134 feet, concrete foundations, slag roof, electric light, tile work. Plans in progress.

Residences (12), 2501-23 Madison street, Wilmington, Del., $72,000. Architect, private plans. Owner, Charles P. Witsil, 2523 Jefferson street, Wilmington, Del. Brick, 2 stories, 20x31 feet, tin or slag roof, pine floors, hot water heat, electric light. Owner will build.

Garage, Hamilton street, Wilmington, Del., $1,000. Architect, private plans. Owner, Diamond Eng. Co., 226 West Ninth street, Wilmington, Del. Brick and hollow tile, 1 story, 25x22 feet, stone foundations, slate roof, cement floors, electric light. Owners will build.

Residences (2), Hamilton street, Wilmington, Del., $16,000. Architect, private plans. Owners, Diamond Eng. Co., 226 West Ninth street, Wilmington, Del. Hollow tile and stucco, 2½ stories, 22x33 feet, stone foundations, slate roof, hardwood floors, hot water heat, electric light. Owner will build.

Garage, Market street, Wilmington, Del., $10,000. Architect, private plans. Owner, J. W. Lank, 1401 West Sixth street, Wilmington, Del. Brick, 1 story, 50x60 feet, slag roof, cement floors, electric lighting. Contract awarded to T. Waller, 526 Lombard street, Wilmington, Del.

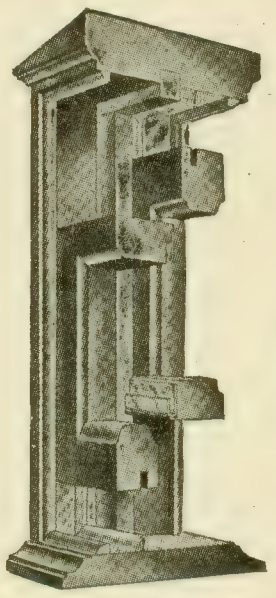
Residence and Store (alts.), 630 W. Fourth street, Wilmington, Del. Architect, private plans. Owner, Harry Kriger, 200½ King street, Wilmington, Del. New fronts, plate glass, interior alterations. Contract awarded to Goodman & Co., 433 North Fifth street, Wilmington, Del.

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Miscellaneous Construction News

Storehouse, Pigeon Loft and Hangar, Spec. 4085, Anacostia, D. C. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, Washington, D. C. Wood, frame and corrugated iron, corrugated iron roof, concrete floors, concrete foundations, steam heat, electric light, rolled steel sash. Owners taking bids. Plans may be secured from Bureau of Yards and Docks, upon deposit of $10.00.

Residence and Garage, Belmont street and Crescent Place, Washington, D. C. Architect, John Russel Pope, 527 Fifth avenue, New York City. Owner, Irwin Loughlin, Washington, D. C. Brick, hollow tile, terra cotta and steel, 3 and 2 stories, 78x80 feet, 36x40 feet, wing 24x18 feet and 29x18 feet, composition, slate and asphalt roof, composition, pine, parquetry and cement floors, metal lath, elevators, roof ventilators, waterproofing, concrete foundations, steam heating, electric lighting, tile and marble work, copper skylights, iron stairs, iron work. Architect taking bids. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 14, 1920. Sealed proposals will be opened in this office at 3 P. M., June 11, 1920, for remodeling the main building of the United States Marine Hospital at Boston, Mass. Drawings and specifications may be obtained from the superintendent of construction, Room 437, Post Office Building, Boston, Mass., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 3, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 1, 1920, for the mechanical equipment of the laundry building for the United States Marine Hospital at New York, N. Y. (Stapleton), in accordance with drawings and specifications, copies of which may be obtained from the Supervising Chief Engineer, Room No. 731, United States Custom House, New York, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 3, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 1, 1920, for furnishing the labor required in the construction, complete (except mechanical equipment), with materials that will be furnished by the Government, of a laundry building for the United States marine hospital at New York, N. Y. (Stapleton). Drawings and specifications may be obtained from the Supervising Chief Engineer, Room 731, United States Custom House, New York, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

PICATINNY ARSENAL, Dover, N. J.—Proposals for extension and alteration to Power House at this Arsenal will be received until two o'clock P. M., June 1, 1920. Apply to Commanding Officer.

R. S. Whiting, Architectural Engineer, Architectural and Building Code Service, National Lumber M'f'g's Association, says, "The ordinary residence as built today (and held accountable for so great a part of the country's fire loss) is a type responsible for the least fire loss in dollars of any type of construction now built.

My statement, continues Mr. Whitney, is very plainly illustrated by the following figures, which represent the total fire losses for the last quarter of last year and show the percentages of loss in buildings and contents in each of these various types:

	%	
Warehouses, factories	41.6	$29,707,000
Business sections	12.	8,972,000
Oil refineries, mills, tanks	10.3	7,275,000
Tornado	8.6	6,000,000
Saw Mills, Yards, mill work	7.2	5,135,000
Grain elevators, crops	3.5	2,786,000
Dwellings	**3.5**	**2,776,000**
Wharves, coal sheds, bridges, boats	3.4	2,665,000
Hotels	3.2	2,165,000
Stables, barns	1.8	1,227,000
Garages	1.6	922,000
Theaters, schools, churches	1.4	662,000
Timberland, forests ..	.8	530,000
Government property.	.1	75,000
	100	$70,897,000

The report shows that dwellings comprise a surprisingly small percentage, especially in view of the fact the lumbermen are freiquently confronted with forceful statements by insurance men that wooden dwellings and shingle roofs are the greatest menace to life and property. It also is apparent from the report that more than half the total loss has been sustained in congested and mercantile districts, which are largely left during the night without sufficient wathchmen or fire alarm service.

No fair comparison can be made by the fire losses of European countries with the fire losses of the United States, since in many, if not all, European countries, an "Individual Liability Law" is in effect which makes each individual property owner personally responsible for losses caused by the spread of this fire to other adjoining property.

The psychology of an individual liability or personal liability ordinance is evident since it touches the pocket-book of each property owner and naturally greatly reduces the start of fires either by accident or otherwise, making individuals more careful and naturally reducing carelessness, which is really the cause of from 75 to 90 per cent. of our fires today. If you will take the pains to investigate this matter, you will find that this statement is true, and that today in many of the cities of the United States are now in force ordinances affecting the personal liability for fires.

In Portland, Oregon, such an ordinance is in effect, and at the present time a test case is being tried in the courts there, and in Billings, Montana, a similar ordinance is in effect, which makes the property owner personally liable for the time the fire department spends in extinguishing the fire upon his premises.

The greater percentage of fire loss is in commercial buildings in the congested districts, and it is toward these sections of cities that a greater effort should be made in the fire-prevention measures and not to the uncongested districts where so few fires occur.

A properly coinstructed frame building in which simple methods of fire stopping are applied will not permit the rapid spread of fire from one room to another, and a fire once started in the interior of such a building can be more easily extinguished than in buildings which are constructed with incombustible walls. You are probably aware that a very small proportion of fires are caused from external exposures and a larger proportion or the largest proportion are of interior origin, which bears out the argument very strongly that carelessness is the main factor in the cause of the fires and not the construction.

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.

If your sales-talk is keyed to interest men who build it should occupy space every week in the "Guide," the only building magazine this side of Manhattan Island.

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TO PREVENT ACCIDENTS IN THE BUILDING TRADES

It has been estimated that even including minor injuries which were frequently not reported, the total injuries during the recent war to the members of the military forces as a result of both accidental causes and battle casualties did not exceed half a million.

In a single State in the year 1918 there were nearly 200,000 accidents among industrial workers alone. If a tabulation of all States could be made on the same basis the totals would greatly surpass the battle casualties of the American Forces during the war.

According to the Bulletin of the Pennsylvania Department of Labor and Industry, more than $600,000 in wages was lost in the building and contracting trades in 1918. The following table was taken from the report:

	All Industries	Building and Contracting
All Accidents ...	184,844	9,190
Fatal	3,403	221
Serious	53,783	3,069
Minor	127,658	5,900
Due to lack of Safeguards ...	10,512	580
Days lost	2,767,471	147,357
Wages lost .....$	10,286,872	$601,136

It will be seen that 580 out of 9,120 accidents were due to lack of safeguards. This is about 6 per cent., and high in comparison to other trades, since in mines and quarries the rate was only one-half of one per cent. Yet it is a small percentage of the whole. And while mechanical safeguards might do something toward reducing the figures, it is obvious that if they can be reduced materially, the problem must be gone at from another angle.

This angle is First Aid instruction such as the American Red Cross is offering to any group or club of workmen anywhere who care to take it. The experience of the Red Cross has conclusively demonstrated that the accident rate among men who have had efficient instruction in First Aid is 75 per cent. less than among the uninstructed. The course has been introduced among hundreds of thousands of workmen in many industries during the past few years, and has proved thoroughly satisfactory in every case.

I make it a rule never to write a grouchy letter—I telephone.

DIGGING A POOL WITH DYNAMITE.

By Norman Supplee.

On a large estate in the suburbs of Philadelphia, the owner desired to have a swimming-pool dug and constructed, dimensions being 32 x 25 and 7 feet deep. This swimming-pool was to be filled and fed by a stream which would run to the pool. It was necessary, therefore, to provide means to take care of the water during the process of the excavation. This was done by turning the stream to the far side of the pool, giving a space for the excavation of the pool, a space of about four feet which the stream occupied.

I put on five men to excavate the dirt. The ground being quite full of water and the general locality abounding in springs gave considerable difficulty in getting the dirt out expeditiously. As I am an experienced agriculturist I decided to use dynamite if it would possibly serve the purpose, the only drawbacks being that the swimming-pool was built at the corner of the property and two estates being on the other sides of the property's rail fences. On one end was a big garden fairly well grown and on the other was a very beautiful lawn. Of course, we would not do any damage to either property. I began experimenting and placed one shot of a half of stick of agricultural dynamite down to a depth of about two feet, six inches. When this went off we had quite a fair hole. I then decided to try a stick instead of a half of a stick. This I placed in to the depth of only eighteen inches. This threw out a sizeable hole, but it scattered the dirt on the adjoining property. The next step taken was to place the charges at an angle. The opening being toward the adjoining property, the thought being that this would cause the throwing of the dirt more in the direction of the client's property rather than in the neighbor's. The results were fairly good, but still some dirt went on the neighbor's property.

The next shot was put in the same way, but we constructed a heavy platform, which after the fuse was lighted we laid over the place where the charge was to go off, right down on the ground, the idea being that the shot set at an angle, this platform being on the opposite side would further aid in causing the dirt to be thrown away from the neighbor's property. The result in this case was not quite as anticipated, the heavy platform having the effect of keeping the blasted material down into the ground. Therefore, the next shot was placed in a similar manner but with the platform raised on one side at an angle above the ground with the platform between the neighbor's property and the shot, the thought being that the dirt would fly up and strike this heavy platform and would be deflected from the neighbors' property, and yet not have the effect of keeping the shot down. The results were just what we anticipated.

The report of the excavation up to this point was that it took one hour to make all these various shots. The five men had been on the work of excavation just one hour, and in that time had thrown out five cubic yards of earth, and as the men were receiving thirty cents an hour, it would cost about $1.50 for the five yards. Two men assisted in placing the platform. The blaster had thrown out about eight yards of dirt by the use of five and a half sticks of dynamite. In figuring up the cost it was estimated that fifteen cents a yard had been saved in the excavation or seventy-five cents on one hour's work.

The pool was proceeded with in the same manner, a series of shots being fired, moving back about three feet for each series. The result derived was that they were clean excavations down to a depth of three feet. The men were then put in to clean out the loose soil an additional foot and a half. The blaster had taken just one day and had used up about one hundred pounds of dynamite. In estimating on the work, I had estimated on twenty days for five men; that would have been $200. The dynamite cost $50, the men and their assistants amounted to $5, with $1.50 for the making of the platform, brought up the total to $6.50. This added to the $50, made $56.50. It took about two days for the five men to clean out the loose dirt, which makes the entire job run a little over $100.

It was one of the best proofs of dynamite as a "Pinch-Hitter" and a tremendous convincer that it is exceedingly tractable if properly used.

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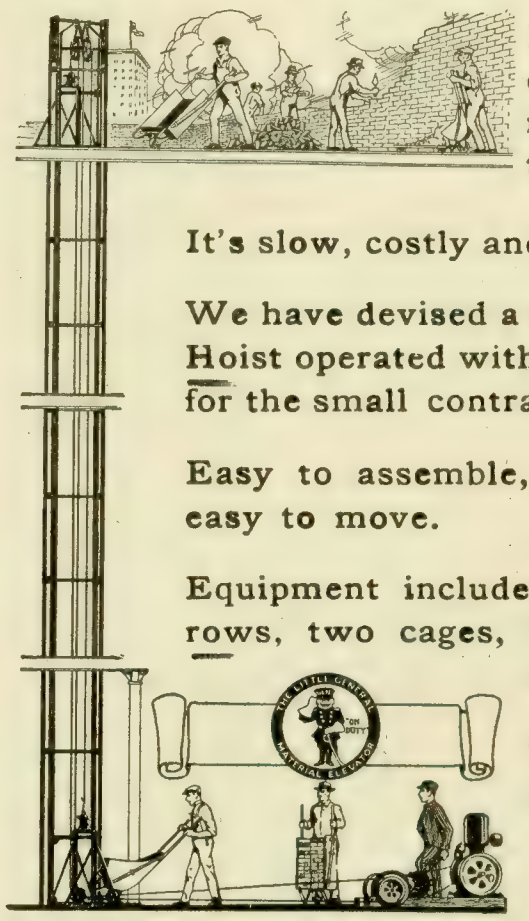
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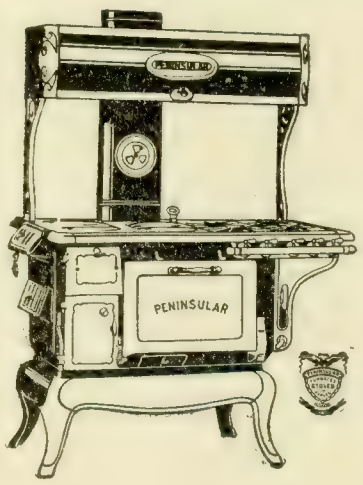
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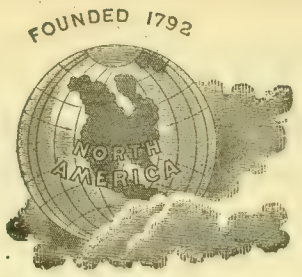
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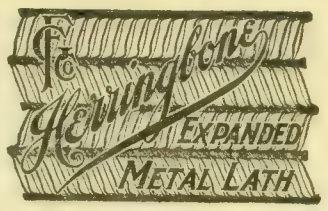
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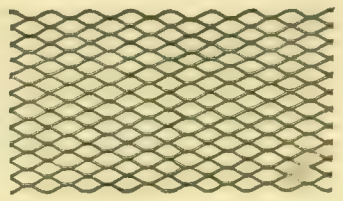
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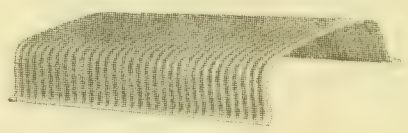
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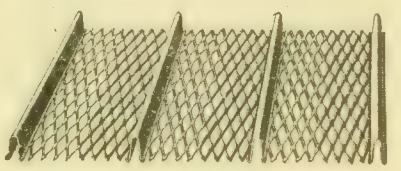
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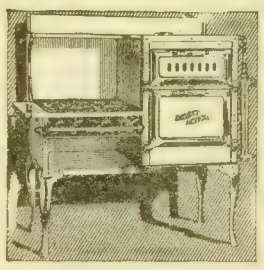
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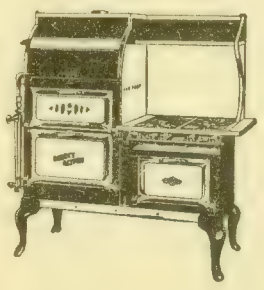
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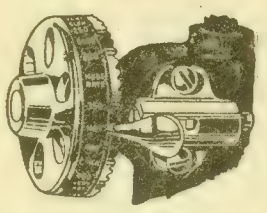
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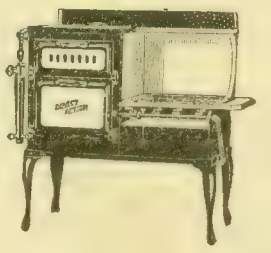
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Builders' Guide

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May 26, 1920

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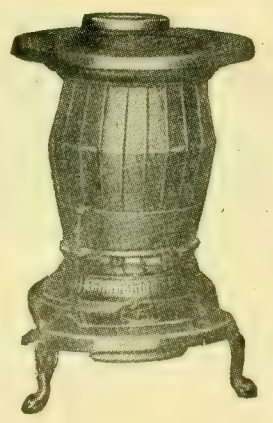
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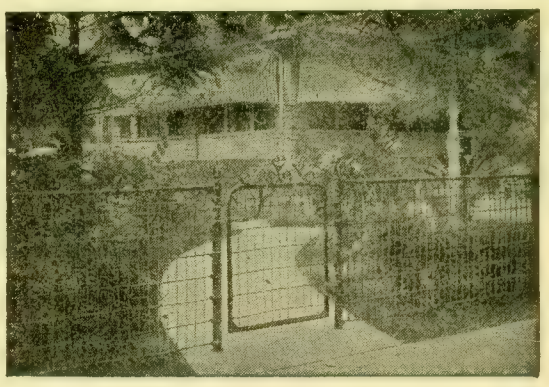
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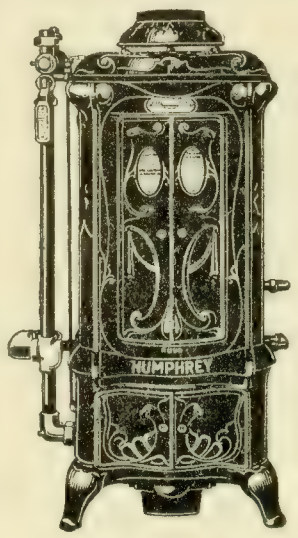
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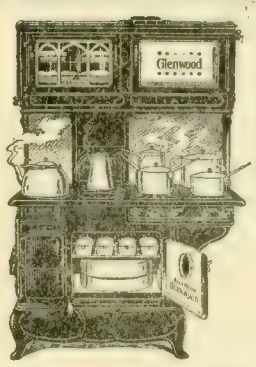
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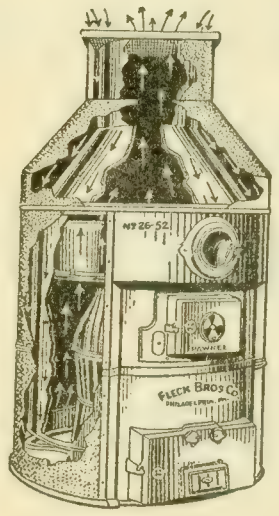


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 21

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May 26, 1920

BUILDERS' GUIDE

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As The Editor Sees It

THE situation in the country today, which was precipitated by the general reductions in merchandise started here and now spreading throughout the country, is one of uncertainty and uneasiness. Money is tight; the banks are calling in loans and refusing to make new ones, and a number of people have predicted a panic.

Looking at the matter sanely and calmly, however, we fail to see any real cause for alarm.

The National City Bank of New York holds that trade conditions are sound and says:

"There is no evidence that stocks of goods are excessive in this country. Reports commonly are that dealers have difficulty in getting goods fast enough to take care of their trade. It is true that the pressure for credit indicates that inventories are high, but this seems to refer to raw materials rather than to goods ready for the consumer's market, and this condition results largely from the delays and uncertainties of transportation. Manufacturers find it necessary to carry larger stocks to be sure of having enough to keep their establishments running in all departments. Large stocks at the present level of prices are undoubtedly an element of danger, but the manufacturing industries of the country are generally in a stronger position as regards the relation of assets to liabilities than they have been in the past.

"Conditions the world over are not such as to suggest a state of over-production in any essential industry in the near future. *The conspicuous feature of the situation is the great backed-up demand for construction work, and there is no record of panic and industrial depression in the face of such a prospect. The needs for housing, for railroad equipment and for construction work of many kinds in our own country, not to speak of the needs of other countries, are imperative.*"

* * *

Another organ, *The National Builder,* reminds us that "the demand for building is an essential demand and must inevitably surmount all the difficulties that tend to hinder."

One of the greatest difficulties to be met by the construction industry at present is the instability of labor conditions. "Not long ago," says *Building Industry,* "bricklayers were examples of laborers willing to lay more bricks for more money, and were enabled to do so with less exertion by studies in various efficiency methods. Now they are killing their trade. A lessened efficiency, to a really alarming extent, is noticeable in almost every branch of the building trades. In some instances it is estimatetd that the increased wage and decreased efficiency has quadrupled the cost of labor within the past two or three years. Employers cannot pay the wages demanded together with the exceptionally heavy increase in the cost of materials.

"One thing that should be borne in mind and which is usually not thought of is that millionaires have no monopoly of wanting shelter. Wage earners are the greatest sufferers and complainers against the rent profiteer. Thus, as in many other cases, labor is damaging itself.

"It is a short-sighted as well as a treacherous policy, to make demands contrary to agreements, and even to agreements which have been revised favorably to the men. Contracts cannot be made when bidders cannot reckon their labor costs, and the demand for building labor falls off before the demand for buildings is satisfied. There had been no indication that the demand for buildings would be satisfied for several years, so great was the shortage created by the war stoppage of construction. Conditions never seemed brighter for business until labor began 'snowballing.' If the unions are prudent they will realize there is a limit to all things, and that steady wages for a long time are better than trying to get extortionate wages for a short period."

ANOTHER great problem before the coinstruction interests today is how to finance the building of homes. From Chicago comes news of a scheme—"the installment mortgage."

Its inauguration is due to the efforts of

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some of the large industrial concerns in Chicago and other cities to promote the interests of their employes. The shortage of homes adds not only to the financial burdens of many classes of people, but has a general disturbing effect that fosters unrest and a decrease in production.

In one of the plans involved the employes are to make an initial payment of 10% of the cost of the home and then pledge themselves to pay the balance in monthly installments covering a period of ten years, the total cost being just what the cost has been to the corporation. It is believed that such plans can not fail to have a helpful effect on general industrial conditions, for nothing has a more stabilizing influence on those who perform the country's work than adequate and comfortable homes.

During the first four months of the present year more than one-half of the total valuation of new construction work has been for industrial and business buildings. While there is great need for these, there is a vital necessity that a larger percentage of the nation's building activities should be directed to the construction of homes. Only about 20% of the total construction of the country so far in 1920 has been given to home building, which is at least 10% below normal.

MAKING CAVITIES IN CONCRETE WITH ICE

Up to the present it has been possible to make only small cavities in concrete, but under a new German patent a big advance appears to have been brought about. Pieces of ice, corresponding to the measurements of the cavity required, are imbedded in the concrete mass, and small channels are introduced to allow of the rapid removal of the water after melting, says the Scientific American.

In this way not only can small concrete constructions, such as pillars, beams and stairs be supplied with a hollow space, but large fixed blocks can be made with several chambers, such as are required for walls of houses or ships. The process is of particular advantage in reinforcing concrete with iron. The iron parts are not built in during the stamping, but are attached to the ice blocks before the beginning of the work, which increases its strength.

The continuing moistening usual in concrete work is rendered unnecessary by the new process, as the loss by evaporation is made good from the melted ice.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

BETTER SCHOOL BUILDINGS RECOMMENDED BY U. S. BUREAU

Consolidation of rural districts and the erection of large modern school buildings is the recommendation which the U. S. Bureau of Education offers, not only for the present and prospective shortage of teachers in the public schools, but also as a means of extending free education to sections in which it is now wholly lacking or very inferior.

Already several States have adopted this plan of merging school districts and combining their respective funds into one from which to finance the establishment of new schools and the payment of salaries. Expenditures for these purposes in Indiana, Ohio, Minnesota, Iowa, Colorado, Utah, Louisiana and North Carolina have already totalled several hundred thousand dollars.

A. O. Neal, of the Bureau of Education, in a statement to your correspondent, said that the Bureau is urging the States to resort to consolidation and that the present shortage of teachers is stimulating the authorities of the several commonwealths to such action. He said that the signs point to a general adoption of the scheme, involving a very large outlay for new buildings in the next few years.

As thus far operated the consolidation of districts has resulted in a great betterment in educational facilities in many counties where schools languished. There has been an improvement in the character of buildings, since the volume of taxes was significantly increased by the merger, a growth in attendance, a readier response on the part of teachers and officials and a general uplift of educational standards. In one county in Iowa where four districts were consolidated a fine building has been erected at a cost of $78,000, a high school has been established and bus lines are in operation to take the children to and from school, yet the tax rate has not been increased.

The plan, which has the approval of the Bureau of Education, contemplates a permament school building, completely equipped, with home for superintendent and one for teachers, a garage for busses and necessary outbuildings. It has been found that all these can be provided with the funds raised by taxation at the prevailing rate. The use of busses to convey the children from their homes to school and back promotes attendance by insuring the pupils against walking long distances in inclement weather.

"Erecting additional or larger school buildings when there is a shortage of nearly 60,000 teachers in rural schools would seem to be a doubtful procedure, but it has been found that teachers are willing enough to remain at their posts if they can be sure of adequate accommodations and fair play," said Mr. Neal. "In those communities where teachers' homes have been provided under the plan we recommend, instructors have not been wanting."—*American Contractor.*

WHEN TO HEAT WOOD BEFORE GLUING

Whether a hide glue joint will be strengthened or weakened by heating the wood before gluing depends on the size of the joint. It is assumed, of course, that the work is being done in a glue room that is warm and not draughty and that the wood itself is at room temperature. Under these conditions, if the joint to be made is of small area, heating the wood is unnecessary. In fact, it may be detrimental, for the warmth of the wood will keep the glue thin, and, when pressure is applied, too much glue may squeeze out, leaving a starved joint. It is very easy to apply too much pressure to a small area.

In making glue joints of large size (several inches each way), heating the wood before gluing is of distinct advantage. Many experiments at the Forest Products Laboratory, Madison, Wis., have proved that when the wood in large joint work is not heated the joints develop full strength only in spots. Weak spots and even joints are too frequently discovered.

Uniform high strength in joints of large size may be secured by heating the wood in a hot-box for 10 or 15 minutes at 120 to 130 degrees Fahrenheit just before gluing. The heat from the wood prevents the glue from chilling and keeps it liquid until pressure is applied.

It should be remembered that heating the wood retards the setting of the glue to some extent. In heavy woods, from which the heat escapes slowly, this retarding effect is more marked than in lighter woods. In all species glued cold at the laboratory the time under pressure required to develop full joint strength was less than 8 hours. When heated wood was used at least 10 hours were required to develop full joint strength in mahogany and more than 12 hours in red oak and maple.—*National Builder.*

The last weekly luncheon of the Philadelphia Builders' Exchange will be held at the Bellevue-Stratford on Thursday, May 27th, at the Roof Garden.

Mr. Thomas Armstrong, Chairman of the Entertainment Committee, has assured the members of the Exchange that there will be a very good talker present and he is withholding his name so as to give the members a surprise.

Everybody is exhorted to be present and make this a jolly occasion, as it will be the last luncheon until Fall.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Elevated Station Buildings (2), Front and Berks streets, Cont. No. 575. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Brick, concrete and steel, 45x16 feet, 39x24 feet, slag roof, concrete floors, stone foundations, marble work, rolled steel sash, iron work. Owners taking bids due June 1st. Standard Const. Co., 1713 Sansom street; I. K. Davis, Twentieth and Spencer streets; W. W. Anstine & Co., Heed Building, and Robbins Cont. Co., 1137 North Front street, are figuring.

Residence (alts.), 1531 North Sixteenth street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, Morris Wolf, on premises. Cabinet work, brick work, marble work, heating repairs, mill work, carpentry, electric work. Architects taking bid (approximate) from Pierce Henon, Inc., Finance Building, Philadelphia.

Office Building (alts. and add.), 708 Washington Square, Philadelphia. Architects, Charles Hillman & Son, 400 Chestnut street, Philadelphia. Owner, Huston Dunn, Inc., on premises. Cement and concrete work, steel and iron work, carpentry, mill work, pine floors, plastering, metal lath, electric lighting, plumbing, plastering, hardware, painting and glazing. Architects taking bids. Albert MacGregor, 1629 Vine street; A. A. Ardis, 219 South Fifteenth street; Pomeroy Const. Co., 1609 Ranstead street; A. P. Fraim, 319 Market street, and Rush J. Whiteside & Son, 2135 Wallace street, are figuring.

Residence (alts. and add.), 1913 Spruce street, Philadelphia. Architect, Edwin H. Fetterolf, 1524 Chestnut street, Philadelphia. Owner, Dr. George Morris Piersol, on premises. Brick work, metal lath, plastering, carpentry, mill work, plumbing, gas fitting, painting, glazing, hardware. Architect taking bids due May 28th. Frank G. Stewart, 1619 Sansom street, and Horace H. Burrell, 206 South Quince street, Philadelphia, are figuring.

Restaurant (alts.), 36 South Fifteenth street, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Kugler's Restaurant, on premises. General renovation of second floor, structural steel, interior alterations. Architect will be ready for bids in a week.

Garage, Darien and Poplar streets, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, Keystone Supply & Mfg. Co., 927 North Ninth street, Philadelphia. Owner taking bid from J. M. Yardley, 1716 Sansom street, due as soon as possible.

Store (alts. and add.), 6163 Woodland avenue, Philadelphia. Architects, Greisler Abramson Co., Lafayette Building, Philadelphia. Owner, Herman Switt, on premises. Brick, 1 story, 18x21 feet, slag roof, maple floors, stone foundations, steam heat, electric lighting, tile and marble work, metal ceiling, iron work, carpentry, mill work, painting, plumbing, sheet metal work, hardware. Architects taking bids due May 29th. F. B. Davis, 240 North Sixteenth street; Ketcham & McQuade, 1029 Brown street; W. W. Anstine & Co., 1218 Filbert street, and E. E. Hollenback, Inc., 1804 Brandywine street, and William R. Dougherty, 1610 Sansom street, are figuring.

Theatre (alts.), Broad and Susquehanna avenue, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Blue Bird Theatre, on premises. General alterations. Architect taking bids due May 29th. Ketcham & McQuade, 1029 Brown street; Pierce Henon, Inc., Finance Building, and P. M. Sax, Franklin Bank Building, are figuring.

Apartment House, Fifteenth and Allegheny avenue, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Architects taking bids. Ketcham & McQuade, 1029 Brown street, and Pierce Henon, Inc., Finance Building, Philadelphia, are figuring.

Store Building (alts. and add.), 518 Market street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Michell & Co., 516 Market street, Philadelphia. Architect taking bids. Smith-Hardican Co., 1606 Cherry street; E. E. Hollenback, Inc., 1804 Brandywine street; Joseph F. Trent, 2041 Master street; Basch & Co., 1426 South Front street; Lam Building Co., 1001 Wood street; F. A. Havens & Co., 845 North Nineteenth street, and A. P. Fraim, 319 Market street, Philadelphia, are figuring.

Residence (alts. and add.), Fifty-ninth and Larchwood avenue, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owner, Thomas I. Cross, Southeast Corner Fifty-ninth and Larchwood avenue, Philadelphia. Brick, 2 stories, 27x14 feet, slag roof, oak floors, metal lath, metal ceilings, stone foundations, electric lighting, iron work (heating and plumbing reserved). Architects have received bids.

Store Building (alts. and add.), Sixth and South streets, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, M. Silverman & Son, on premises. Brick, terra cotta and steel, 3 stories. Architects taking bids due May 29th. F. A. Havens & Co., 845 North Nineteenth street; M. H. McCloskey, Jr., Inc., 1620 Thompson street; Graham-Wells Co., 3649 Filbert street; J. M. Yardley, 1716 Sansom street; A. R. Raff Cont. Co. ,1635 Thompson street; William R. Dougherty, 1610 Sansom street; F. E. Wallace, 1220 Chancellor street; Ketcham & McQuade, 1029 Brown street, and H. E. Baton, 1713 Sansom street, Philadelphia, are figuring.

Brodsky Synagogue, Twelfth and Spencer streets, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Hebrew Orphans' Home, on premises. Stone and steel, 1 story, 60x34 feet, slag roof, maple floors, metal lath, marble work, ornamental iron work, stone foundations (heating, plumbing, electric work and tile work reserved). Architect has received bids.

Residence, Arrott street, East of Pilling street, Philadelphia, $15,000. Architect, private plans. Owner, Frank C. Devoe, 5417 Frankford avenue, Philadelphia. Brick, 1 story, 1½ stories, 33x45 feet, slag and slate roof, hardwood floors, tile work, hot water heating, electric lighting. Owner will build.

Residences (4), Rockland and Fairhill streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Donahue, 4920 North Fifth street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, oak floors, hot water heat, electric lighting, tile and marble work. Owner taking approximate bid from H. E. Sweger, 4435 North Uber street, Philadelphia.

Store (alts. and add.), Southwest Corner Fourth and South streets, Philadelphia, $11,000. Architect, private plans. Owners, Rosoff & Ginde, 1520 South Sixth street, Philadelphia. Brick, 4 stories, 6x8 feet, slag roof, electric lighting, pine and hardwood floors, new partitions, general alterations. Owners will build.

Stores and Apartments (alts.), 5907-09 Market street, Philadelphia. Architect, A. H. Meuller, 1727 Bristol street, Philadelphia. Owner, H. D. Schwarzman, on premises. Brick and steel, 1 story, 27x40 feet, slag roof, pine floors, metal lath, waterproofing, ornamental iron work, stone foundations, hot water heat-

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ing, electric lighting, tile and marble work, concrete work, mill work, painting, glazing, plumbing. Architect has received bids.

Residences (12), Susquehanna avenue, East of Fifty-fourth street, $174,000. Architect, private plans. Owner, William T. Fields, Wayne, Pa. Brick, 3 stories, 17½x50 feet, hot water heating, electric lighting, hardwood floors, tile and marble work, cement work. Owner will build.

Residence (alts. and add.), Midvale and Wissahickon avenues, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, William R. Nicholson, Jr., Midvale and Wissahickon avenues, Philadelphia. Frame, stone and brick, 3 stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress.

Residence (alts.), 1424 Spruce street, Philadelphia. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, name withheld. Interior alterations, hot water heating, electric lighting, electric lighting, tile work, hardwood floors. Plans in progress.

Church (basement), Sixty-first and Oxford streets, Philadelphia. Architects, Druckenmiller & Williams, 1527 Chestnut street, Philadelphia. Owner, Third Christian Church, care of Rev. T. E. Winter, Lancaster avenue and Aspen street, Philadelphia. Architects taking revised bids due as soon as possible. Thomas C. Trafford, 1613 Sansom street; Graham & Wells, 3649 Filbert street; Tourison & Tourison, 1011 Chestnut street, and Bowden Const. Co., 1713 Sansom street, are figuring.

Stable (alts.), Twenty-fifth and Lombard streets, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, New York Pie Baking Co., on premises. Concerte and cement work, waterproofing, steel and iron work, rolled steel skylights, carpentry, mill work, hardware, plumbing and drainage. Architects taking bids due June 3rd. William R. Dougherty, 1610 Sansom street; Robert E. Lamb Co., 843 North Nineteenth street; F. B. Davis, 240 North Sixteenth street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Ketcham & McQuade, 1029 Brown ssreet, and W. O. Springer, 2004 Naudain street; T. C. Trafford, 1613 Sansom street, Philadelphia, are figuring.

Residence, Chelten avenue, Philadelphia. Architects, E. J. Ohrenstein & Hild, 613 Dearborn street, Chicago, Ill. Owners, E. J. Rosenau, care of architects. Hollow tile and stucco, 1½ stories, 37x46 feet, shingle roof, oak and pine floors, stone foundations, hot water heat, electric lighting, iron work. Architects taking approximate bid from H. E. Grau Co., 1707 Sansom street, Philadelphia.

Connecting Bridges, Passyunk avenue, West of Twenty-eighth street, $6,300. Architect, private plans. Owner, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Concrete and steel, 1 story, 8 feet wide, 60 feet long. Owners will build.

Store and Dwelling, 421 South street Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Max Maser, care of architect. New brick front, 3 stories, add. 16x20 feet, slag roof, hardwood floors, electric lighting, copper bulks, excavating. Plans in progress.

Residences (2), 111-13 West Coulter street, Germantown, Philadelphia, $14,000. Architect, private plans. Owner, Joseph A. Kean, 220 Winona avenue, Philadelphia. Brick, 3 stories, 16½x30 feet and 16½x26½ feet, slag roof, hot water heat, electric lighting, hardwood floors. Owner will build.

Convent (interior finish), Mascher and Diamond streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, St. Bonifacius' Roman Catholic Church, on premises. Interior carpentry and mill work. Architect has received bids.

Store (alts. and add.), 5618 Germantown avenue, Philadelphia. Architect, F. J. Boas, Broad and Race streets, Philadelphia. Owner, R. J. McNally, 5618 Germantown avenue, Philadelphia. Brick and steel, 2 stories, 30x20 feet, slag roof, pine floors, metal lath, iron work, rolled steel sash, tile work, electric lighting, hot water heating, stone foundations. Owner taking bids due May 29th. F. A. Havens & Co., 845 North Nineteenth street, Philadelphia, are figuring.

Residence, Chestnut Hill, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Charles J. McManus, Wissahickon avenue and Carpenter lane, Philadelphia. Stone, 2½ stories, 28x15 feet, wing 16x18 feet, shingle roof, pine floors, metal lath, dampproofing, iron work, stone foundations, electric lighting, hollow metal sash. Architects taking bids due May 27th. William R. Dougherty, 1610 Sansom street; R. C. Ballinger & Co., 218 North Thirteenth street, and M. Melody & Son, 1322 Race street, are figuring.

Manufacturing Building, Frankford Arsenal, Philadelphia. Owners, U. S. Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Miscellaneous equipment for manufacturing of cartridge cases in artillery case shop. Owner taking bids due June 4th. Ketcham & McQuade, 1029 Brown street, are figuring.

Post Office (alts.), Ninth and Chestnut streets, Philadelphia. Architect, private plans. Owners, United States Government, Office of Custodian, Ninth and Market streets, Philadelphia. Carpentry, mill work, hardware, painting, glazing. Lowest bidder: Joseph F. Price, 2038 Rittenhouse street, Philadelphia, $3,474.

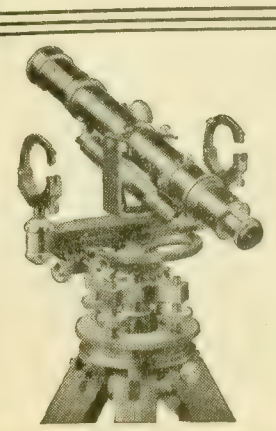
Schools, various locations. Architect, private plans. Owner, Board of Education, Nineteenth above Chestnut street, Philadelphia. Alterations and additions to schools, equipment, plumbing, heating, electric work, repairs and painting roofs, pointing, paving, sanitary improvements. Owners taking bids due June 3rd at noon.

Dwelling, Tinicum avenue and Eighty-fourth street, $4,000. Architect, private plans. Owner, Garrett Smith, 3414 Redmond street, Philadelphia. Brick, 2 stories, 16x26 feet, 12x10½ feet, slag roof, hot air heating, electric lighting, pine floors. Owner will build.

Factory, Wheatsheaf Lane and Gaul street, Philadelphia, $20,000. Architect, Albert C. Wood, Engr., Stock Exchange Building, Philadelphia. Owner, F. W. Tunnell & Co., on premises. Brick and steel, 1 story, 102x84 feet, slag roof, electric lighting, cement floors. Owner will build.

Store Building, 5616 Germantown avenue, Philadelphia. Architect, F. J. Boas, 201 N. Broad street, Philadelphia. Owner, R. J. McNally, 5618 Germantown avenue. Owner taking bids, due May 29th. Pringle Borthwick, 8018 Germantown avenue; Frank G. Stewart, 1619 Sansom street, and H. E. Baton, 1713 Sansom street; A. R. Raff Cont. Co., additional bidders.

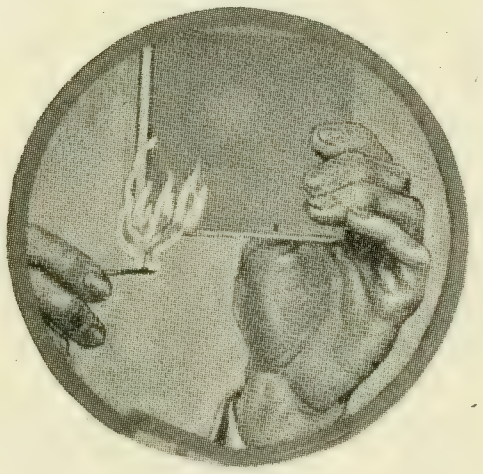
Office Partitions, 1431 Walnut street, Philadelphia. Architect, Spencer Roberts, 10 S. Eighteenth street, Philadelphia. Owner, Cushman Newhall, 1431 Walnut street, Phila-

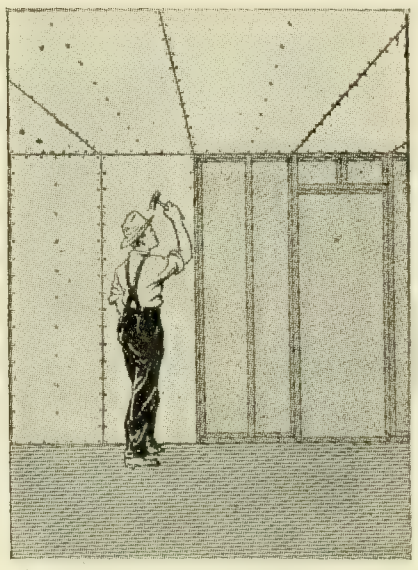


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delphia. Carpentry, millwork, painting, hardware, glazing. Architect taking approximate bid from Frank G. Stewart, 1619 Sansom street, Philadelphia.

Moving Picture Theatre, Fairmount avenue, near Forty-fourth street, Philadelphia. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owners, Philadelphia Investment Amusement Corp., 2042 South street, Philadelphia. Brick, 1 story, 40x160 feet, slag roof, steam heating, electric lighting, fire doors, stone foundations, cement floor. Plans in progress.

Loft Building, 1716-18 Market street, Philadelphia, $1,000,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Thommen Co., 1520 Market street, Philadelphia. Agent, C. J. Mitchell, Lincoln Building, Philadelphia. Brick, stone, steel, concrete and terra cotta, 12 stories, steam heating, electric lighting, tile and marble work, elevators. Architects taking bids, due Mary 28th. Cramp & Co., Denckla Building, Philadelphia, are figuring.

Garages (13), Frankford, Philadelphia. Architects, Antrim & Connaroe, 225 South Sydenham street, Philadelphia. Owner's name withheld. Brick, 1 story, 84x20 feet, 64x20 feet, 20x10 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting, galvanized iron partitions. Plans in progress. Architects will be ready for bids in a week.

Bank and Office Building (add.), 18 South Fifteenth street, Philadelphia. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street, Philadelphia. Owners, The Franklin Trust Co., 20 South Fifteenth street, Philadelphia. Brick, stone, terra cotta, concrete and steel, 10 stories, 20x94 feet, slag roof, metal lath (plumbing, electric work, heating and elevators separate bids). Plans in progress.

Office Building, Orianna street and Chestnut street, Philadelphia. Architect not yet selected. Owners, N. W. Ayer & Son, 308 Chestnut street, Philadelphia. Size of lot, 70x130 feet. Work contemplated.

Residence (alts. and add.), 1912 Venango street, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Dr. U. Phillips, on premises. Brick, 2 stories, 15x20 feet, slag roof, hardwood floors, hot water heating, electric lighting, plumbing. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Forge and Billet Shop, Front and Erie avenue, Philadelphia. Architect, private plans. Owners, Hess Bright Mfg. Co., on premises. Concrete and steel, 1 story, 90x180 feet, composition and slag roof, concrete floors, metal lath, stone foundations, rolled steel sash. Contract awarded to H. John Homan, 34 South Seventeenth street, Philadelphia.

Temple (fire repairs), 551-53 North Fifth street, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Methodist Temple, on prem-

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ises. General fire repairs. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Building (alts., for Chinese Restaurant), 1023-25 Market street, Philadelphia, $3,000. Architects, Arthur Weindorf and T. P. Pullis, Brooklyn, N. Y. Owners, Sun Deluxe Restaurant, care of architects. Carpentry, mill work, composition floors, electric work, plumbing, plastering, metal lath, painting. Contract awarded to Joseph L. Dussick, 144 East Fifty-eighth street, New York City.

Residence (alts. and add.), 4050 Parkside avenue, $3,000. Architects, Greisler Abramson Co., Lafayette Building, Philadelphia. Owner, Harry Lieberman, on premises. Brick, 1 story add. 16x11 feet, carpentry, mill work, metal lath, painting, tile and marble work, plumbing, electric lighting, slag roof. Contract awarded to Harry Feldman, 5016 Parkside avenue, Philadelphia.

Store and Dwellings (add.), 2307-09-11-13-15 North Twenty-ninth street, $7,500. Architect, private plans. Owner, Mary Feldman, 5016 Parkside avenue, Philadelphia. Brick, 1 story, 15x14 feet, slag roof. Contract awarded to Harry Feldman, 5016 Parkside avenue, Philadelphia.

Store and Dwelling (alts. and add.), 1730-32 South Seventh street, Philadelphia, $9,000. Architect, private plans. Owner, A. Berezin, on premises. Brick, 1 story, 3½x16 feet, slag roof, general alterations. Contract awarded to Charles Belinsky, 2504 South Sixth street, Philadelphia.

Residence (alts. and add.), 6643 North Eighth street, Philadelphia, $5,400. Architect, private plans. Owner, C. Presse, on premises. Brick, 1 story, 11x20 feet, and 1 story, 18x26 feet. Contract awarded to Nicholas Altarelli, 537 Carpenter street.

Residence (alts.), 4120 Leidy avenue, Philadelphia, $5,200. Architect, private plans. Owner, Abram Cohen, on premises. General alterations to 2-family residence, electric lighting, plumbing, new partitions, brick work, carpentry, hardwood floors. Contract awarded to Isaac Paskoff, 2136 South Tenth street, Philadelphia.

Store and Laboratory, Eleventh and Carpenter streets, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owners, Monticelli Bros., Ninth and Washington avenue, Philadelphia. General alterations, 3-story brick add., 20x23 feet, slag roof, pine floors, galvanized iron cornice, hand-power elevator, hot water heating, electric lighting, plumbing, flush bulks. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Store and Dwelling, 5914 Torresdale avenue, Philadelphia, $10,000. Architect, private plans. Owner, J. Philip Keck, 5916 Torresdale avenue, Philadelphia. Brick, 2 stories, 30x32 feet, 13x30 feet and 17x31 feet, slag roof, hot water heating, electric lighting, pine floors. Contract awarded to Lewis Dietrich, 3016 Comly street, Philadelphia.

Paint Factory (fire repairs), 1026-28 Race street, Philadelphia, $30,000. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owner, H. E. & D. J. Yarnall, on premises. Carpentry, mill work, plumbing, repairs to heating, electric work, painting, glazing, fire doors, rolled steel sash. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Church (fire repairs), Sixteenth and Jefferson streets, Philadelphia. Owner, Messiah Lutheran Church, on premises. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Brick work, tile work, slate roof, carpentry, mill work, plastering, metal lath, hardware (plumbing, heating and electric work reserved). Contract awarded to Hogg Const. Co., Denckla Building, Philadelphia.

Manufacturing Building, State road and Devereaux street, $40,000. Architect, private

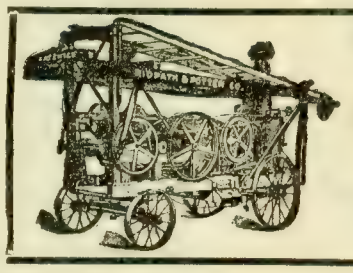


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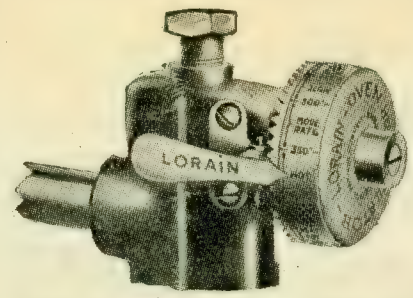
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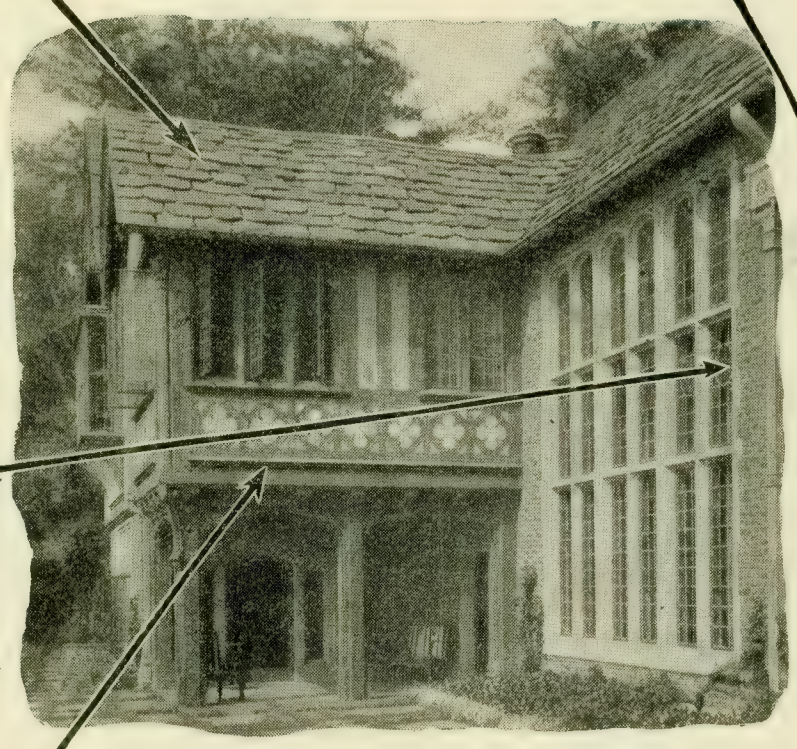
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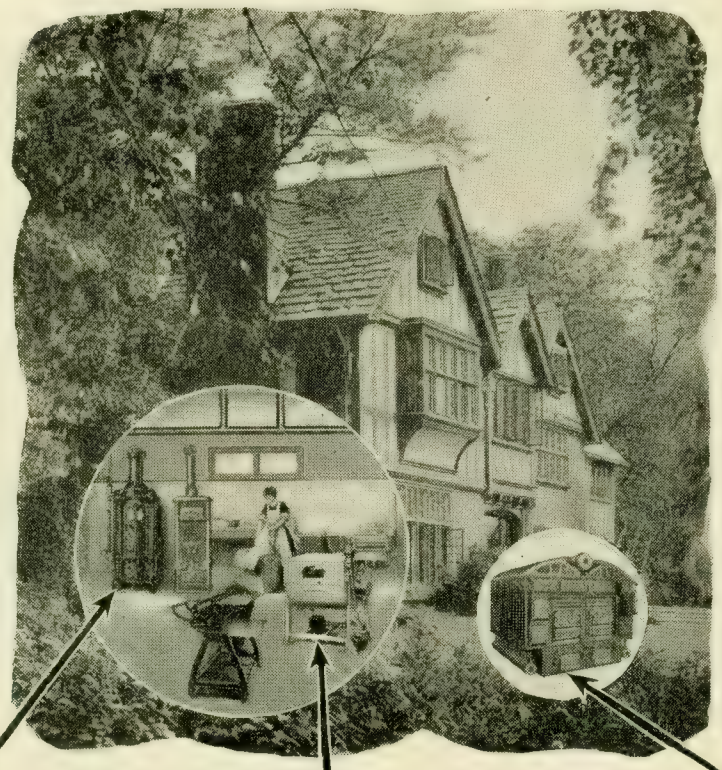


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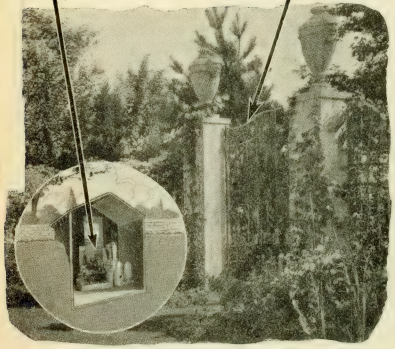
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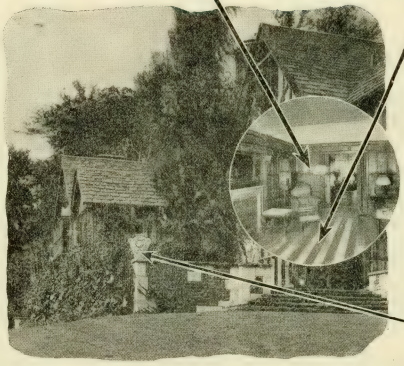
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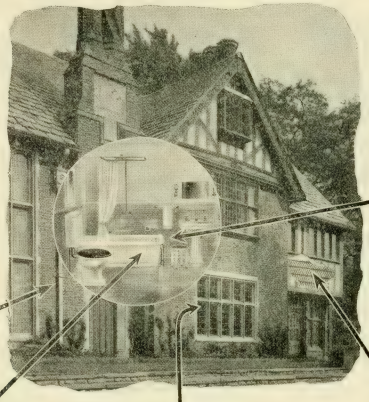
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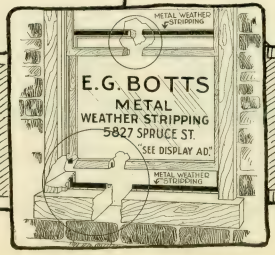






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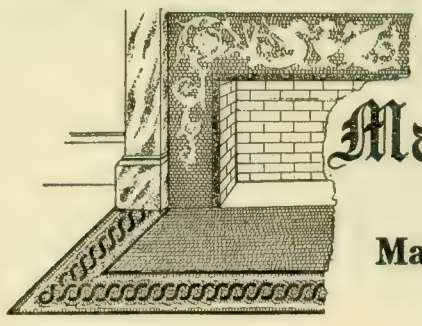


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plans. Owner, Gillinder & Sons, on premises. Brick and steel, 2 stories, 89x55 feet, slag roof, steam heating, cement floors, electric lighting, rolled steel sash and skylights. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Residence (alts.), 1822 Delancey street, Philadelphia, $11,000. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Newell C. Bradley, on premises. General alterations and repairs. Contract awarded to Horace H. Burrell, 206 South Quince street, Philadelphia.

Shop, Southeast Corner Third and Luzerne streets, Philadelphia, $15,000. Architect, private plans. Owners, Schuylkill Forge Co., on premises. Brick, 1 story, stone foundations, cement floor, slag roof, electric lighting. Contract awarded to J. J. Harding, 723 North Twenty-sixth street, Philadelphia.

Factory Building (alts. and add.), Water and South streets, $40,000. Architects, Engineering Department, Hinde & Dauch Paper Co., Sandusky, O. Owners, Hinde & Dauch Paper Co., Sandusky, O. Brick, 1 story, 100x100 add., slag roof, pine floors, electric elevator, steel columns, fire escapes (heating, electric lighting and plumbing reserved), general alterations to entire building. Contract awarded to Pierce Henon, Inc., Bulletin Building, Philadelphia.

Residence (alts. and add.), 1601 North Sixteenth street, Philadelphia, $3,500. Architect, private plans. Owner, William Stehle, 2307 North Thirty-third street, Philadelphia. Brick, second story add., 13½x8½ feet, slag roof, oak floors, plastering, painting, glazing. Contract awarded to E. R. Clark Co., 536 Walnut lane, Philadelphia.

Refrigerating Plant, 341 Master street, Philadelphia. Engineers, Utility Supply Co., 329 North Fourth street, Philadelphia. Owners, Quinn's Dairies, on premises. Refrigerating installation and cork insulation. Contract awarded to Utility Supply Co., 329 North Fourth street.

Residence, Shelbourne street and Princeton street, Philadelphia, $4,500. Architect, private plans. Owner, William Reigel, 915 St. Vincent street, Philadelphia. Brick, 1 story, 30x36 feet, slag roof, electric lighting. Contract awarded to M. Stevens, 916 St. Vincent street, Philadelphia.

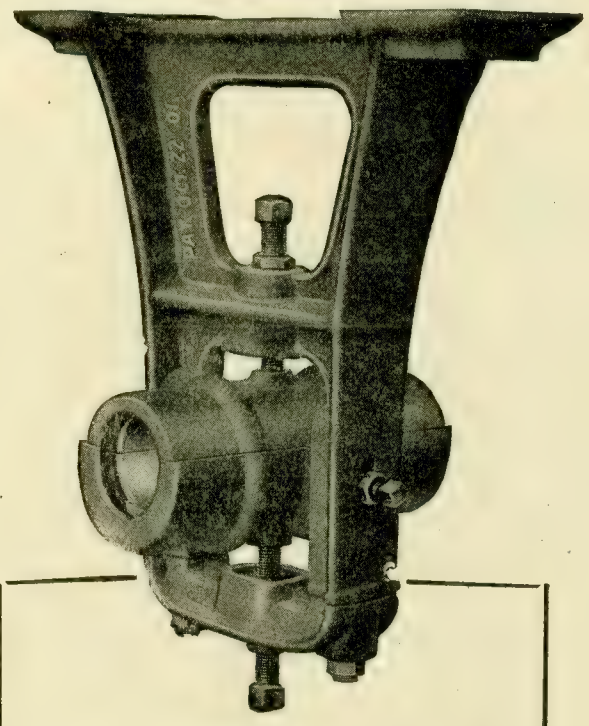
Residence (alts. and add.), 1834 Delancey street, Philadelphia. Architect, Adin B. Lacey, 1012 Walnut street, Philadelphia. Owner, William R. Ellison, 24 South Sixth street, Philadelphia. Brick, 4 stories, 22x75 feet, general alterations, electric lighting, hardwood floors, new partitions, plumbing, plastering. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Box and Carpenter Shop, Rising Sun avenue and Adams road, Philadelphia, $125,000. Architect, private plans. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue. Brick, 2 stories, 161x82 feet and 39½x22½ feet, slag roof, pine and cement floors, steam heating, electric lighting, rolled steel sash. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Factory (add.), 4841-49 Lancaster avenue, Philadelphia, $18,000. Architect, private plans. Owners, Brooks Bros. Co., on premises. Brick, 1 story, 80x75 feet, slag roof, pine floors, stone foundations. Contract awarded to W. S. Snyder, 4502 Springfield avenue, Philadelphia.

Factory, Southeast Corner Seventy-second and Lyons avenue, Philadelphia, $32,000. Architect, private plans. Owner, Samuel Collom, Broad and Race streets, Philadelphia. Brick, 2 stories, 44x116 feet and 13x20 feet, slag roof, cement and pine floors; steam heating, electric lighting. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

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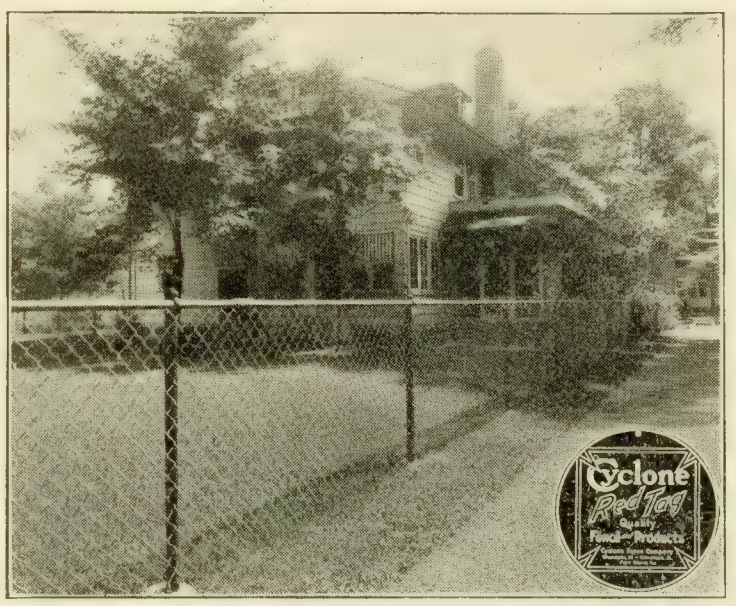
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Stores and Residences (5) **(alts. and add.),** 4601-3-5-7-9 Lancaster avenue, Philadelphia, $20,000. Architect, private plans. Owner, Nocom Kenen, 5850 Market street, Philadelphia. Brick, 2 stories, 14½x15 feet, slag roof, hardwood floors. Contract awarded to Jacob Rothman, 628 Hoffman street, Philadelphia.

Tenement Houses (2), Walnut street, West of Forty-fifth street, $130,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Harrison N. Diesel, 5039 Springfield avenue, Philadelphia. Brick, 4 stories, 36½x86½ feet, slag roof, electric lighting, hardwood floors, tile and marble work. Contract awarded to John D. Diesel, 4943 Chester avenue, Philadelphia.

Store and Office (fire repairs), 1510 Chestnut street, $7,000. Architect, private plans. Owners, Mastbaum Bros. & Fleisher, Finance Building, Philadelphia. Carpentry, mill work, electric work, plastering, painting, glazing, iron and steel work, slag roof, pine floors. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Offices (add.), 1827 Arch street, Philadelphia, $6,000. Architect, private plans. Owner, Cosmopolitan Ins. Co., Twentieth and Spring Garden streets, Philadelphia. Brick, 2 stories, 16x50 feet, general alterations. Contract awarded to W. E. Hale, 1636 Ludlow street, Philadelphia.

Store (alts.), 1308 Drury street, Philadelphia, $4,000. Architect, private plans. Owner, George Humes, on premises. Fire repairs. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street, Philadelphia.

Residence (alts.), 28 West Walnut lane, Philadelphia. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, R. D. Kernan, 28 West Walnut lane, Philadelphia. General alterations. Contract awarded to William J. Gruhler & Co., 219 East High street, Philadelphia.

Store and Dwelling (alts. and add.), 1161 South Ninth street, $4,500. Architect, private plans. Owner, Mrs. Mary Shenskevitz, on premises. Brick, 2 stories, 12x12 feet, slag roof, electric lighting. Contract awarded to B. Shestack & Co., 528 Reed street, Philadelphia.

Pattern Shop, McKean street, east of Vandalia street, Philadelphia, $4,500. Architect, private plans. Owner, E. E. Brown, on premises. Reinforced concrete and steel, second story addition, 20x46 feet, slag roof. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Home (add.), Seventieth and Woodland avenue, Philadelphia, $5,700. Architect, private plans. Owners, St. Vincent's Home, on premises. Brick, 5 stories, 8x10½ feet, slag roof, iron work. Contract awarded to George S. Roe, 6949 Saybrook avenue, Philadelphia.

Store (alts.), northwest corner of Twelfth and South streets, Philadelphia, $6,000. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Co., 44 West Eighteenth street, New York City. Marble and tile work, plate glass, plastering, metal lath, electric lighting, brick work, painting. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Store (alts.), 1437 Chestnut street, Philadelphia, $12,000. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Co., 44 West Eighteenth street, New York City. Masonry, marble work, carpentry, hardware, tile work, plastering, metal work, steel and iron work, painting, plumbing, repairs to floors, metal ceilings (electric work and store fixtures reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Boiler House, Sixty-first and Larchwood avenue, Philadelphia, $10,000. Architects, Wm. F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia. Owners, A. & F. Dry Cleaning Co., on premises. Brick, 1 story and basement, 176x32 feet, slag roof, cement floors, millwork, metal work, rolling wood doors, concrete foundations, plumbing, structural steel (lighting reserved). Contract awarded to Wm. F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia.

Residence (alts. and add.) to Apartment House, 1806 Erie avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Solomon Levy, Bulletin Building, Philadelphia. Carpentry, mill work, roof repairs, plumbing, electric lighting, hardwood floors, hot water heating extension, hardware. Contract awarded to Townson Wilkinson, 5331 Morris street, Germantown.

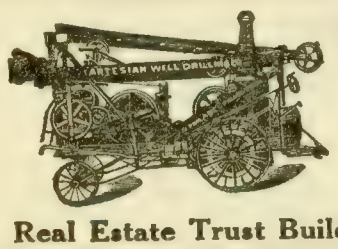
Napthalene Building (fire repairs), Bermuda and Margaret streets, $40,000. Architect, private plans. Owners, Barrett Mfg. Co., on premises. Brick and reinforced concrete work, slag roof, mill work, carpentry, general fire restoration. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

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PENNSYLVANIA Construction News

Garage, Elkins Park, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, S. B. Koffler, Elkins Park, Pa. Stone, 1½ stories, 35x22 feet, slate roof, cement and pine floors, stone foundations, electric lighting, iron work. Architect has received bids.

Residences (50), Lewistown, Pa. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Chamber of Commerce (Lewistown Housing Corp.), Lewistown, Pa. Plans completed. Owners will build and are taking sub-bids.

Road Work, Norristown, Pa. Owners, Highway Committee of Norristown, Norristown, Pa. Vitrified brick or block, Amesite, Filbert-ing or Topeka Mix (3, 2, 1). Owners taking bids due May 27th. Plans may be secured from Engineer S. Cameron Corson, Borough Engineer, City Hall, Norristown, Pa.

Women's Dormitory, Huntingdon, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Juniata College, Huntingdon, Pa. Brick and limestone. Architects taking bids due June 1st. H. E. Baton, 1713 Sansom street; R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia; J. C. Hall, Huntingdon, Pa., and Foundation Co., 233 Broadway, New York City, are figuring.

Factory and Condensory, Florin, Lancaster County, Pa., $175,000. Owners, Hershey Chocolate Company, Hershey, Pa. Concrete, brick, stone and steel. Work contemplated.

Garage, Collingdale, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Fred U. Lorilard, Collingdale, Pa. Brick, 2 stories, 60x100 feet, slag roof, cement and pine floors, steam heat, electric lighting, stone foundations, metal lath, iron work. Architect taking bids due May 29th. George H. Evans, 45 North Thirteenth street; D. Henwood, 717 South Sixtyt-hird street; J. M. Yardley, 1716 Sansom street, and J. D. Fisher, 5414 Thompson street, Philadelphia, are figuring.

Church and School, North Third street, Harrisburg, Pa. Architect, not yet selected. Owner, St. Mary's Roman Catholic Church, care of Rev. Father Daley, Maclay street, Harrisburg, Pa. Work contemplated.

Bungalow (alts. and add.), Williamsport, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, S. LaRue Munsen, Williamsport, Pa. **Frame, 2 stories,** 21x48 feet, shingle roof, hardwood floors, hot air heating, electric lighting, tile work, plumbing, mill work ,painting. Plans completed. Owner will take bids.

Residence, Ardmore, Pa. Architect, John Russell Pope, 527 Fifth avenue, New York City. Owner, J. H. Carstairs, Bellevue Court Building, Philadelphia. Brick and stucco, 2½ stories, 39x87 feet, 25x47 feet, oak and pine floors, shingle roof, direct warm air heating, electric lighting, marble work. Architect taking bids. Metzger & Fisher, Otis Building, Philadelphia, are figuring.

Residence, Elkins Park, Pa. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner, Robert S. Feeney, care of architect. Stone and steel, 2½ stories, 37x27 feet, slate roof, oak and pine floors, stone foundations, electric lighting, marble work, ornamental iron work (heating and tile work reserved). Architect has received bids.

Residence, Merion, Pa. Architects, Curtis & Grindrod, Franklin Building, Philadelphia. Owner, Charles V. Bergh, 4805 Springfield avenue, Philadelphia. Stone, 2½ stories, 58x38 feet, wing 21x22 feet, slate roof, oak and pine floors, stone foundations, tile and marble work, iron work (heating, electric lighting and plumbing reserved). Architects have received bids.

Club House (alts.), Phoenixville, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, Phoenix Club, Phoenixville, Pa. Brick work, carpentry, mill work, steel work, tile work, hardware, painting, plastering, glazing, steam heat, electric work, plumbing. Architects taking approximate bid from H. E. Grau Co., 1709 Sansom street, Philadelphia.

Women's Dormitory, Huntingdon, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Juniata College, Huntingdon, Pa. Brick, terra cotta, stone and steel, 3 stories, 85x39 feet, wing 32x26 feet, slate roof, concrete and oak floors, hollow tile, metal lath, waterproofing, dampproofing, fire escapes, ornamental iron work (heating, electric lighting, tile, marble work and plumbing reserved). Architect taking bids, due May 29th.

Club Building (alts.), Cheswold Lane, Haverford, Pa. Architects, Furness, Evans Co., Franklin Bank Building, Philadelphia. Own-

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ers, Merion Cricket Club, Haverford, Pa. General remodeling, new partitions, plumbing, plastering, mill work. Plans in progress. Architects will take sub-bids.

Pennsylvania Contracts Awarded

Club Buildings, Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Aberfoyle Mfg. Co., Chester, Pa. Club house and swimming pool, brick and stucco, 1½ stories, 91x200 feet and 100x42 feet, asphalt shingle roof, marbleloid and composition floors, stone foundations, waterproofing, iron work (heating, plumbing and electric work reserved). Contract awarded to William Provost, Jr., 709 Crozer Building, Chester, Pa.

Residence, Montgomery avenue and Rose lane, Haverford, Pa., $35,000. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Charles C. Norris, Jr., West End Trust Building, Philadelphia. Hollow tile, stucco and steel, 2½ stories, 68x34 feet, wing 17x16 feet, slate and canvas roof, oak and pine floors, stone foundations, tile work, hollow tile, metal lath, tile work, iron work. Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Store Front (add.), 121 East Third street, Bethlehem, Pa. Architect, J. R. Wilt, 503 East Fourth street, Bethlehem, Pa. Owner, Adam Brinker, 119 East Third street, Bethlehem, Pa. Brick and stone, 1 story, 29 feet 2 inches x77 feet 5 inches, tin roof, hardwood floors, marble work, (3) rolled steel skylights. Contract awarded to Robert Pfeifle, Bethlehem, Pa.

Residence (alts. and add.), Haverford, Pa. Architect, Walter F. Price, 136 South Fourth street, Philadelphia. Owner, William W. Comfort, Haverford, Pa. Frame, third story add., shingle roof, general alterations. Contract awarded to Charles C. Pace, Merion, Pa.

New Jersey Construction News

Office Building, New Brunswick, N. J. Architects, Boylan & Saxe, New Brunswick, N. J. Owner, The Hyjel Co., Perth Amboy, N. J. Stone, steel, terra cotta and brick, 2 stories, 100x50 feet, slag roof, composition and pine floors, metal lath, roof ventilators, iron work, hollow metal skylights, tile and marble work, stone foundations. Architects taking bids due May 28th. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

School, Cedar Brook, Winslow Township, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, Township of Winslow, Horace Angelow, clerk, Berlin, N. J. Brick, 2 stories. Revised plans in progress.

Residence (alts.) to Apartment House, Woodbury, N. J. Architect, Charles H. Peddle, 136 South Fourth street, Philadelphia. Owner, Dr. Amos Underwood, Woodbury, N. J. General interior alterations, hot water heating, electric lighting, tile work, plumbing, changing partitions. Plans in progress.

School Building, Sayresville, N. J. Architect, Alexander M. Merchant, 363 George street, New Brunswick, N. J. Owner, Board of Education, Sayresville, N. J. Brick, stone and steel, 2 stories, 134x43 feet, slate and slag roof, concrete, composition and maple floors, metal lath, safety treads, roof ventilators, iron work, copper skylights, stone foundations (heating, plumbing and electric work reserved). Architect has received bids.

Store and Bachelors' Apartments, Pennsylvania avenue, near Atlantic avenue, Atlantic City, N. J. Architect, William H. Hodgens, 130 South Fifteenth street, Philadelphia. Owner, M. Rosenbaum, care of architect. Brick, 3 stories, 17x60 feet, slag roof, pine floors, stone foundations, hot water heating, electric lighting, iron work. Architect taking bids due as soon as possible. Lani Building Co., 1001 Wood street, Philadelphia, are figuring.

Manufacturing Building (add.), Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Esterbrook Pen Co., Camden, N. J. Reinforced concrete, 3 stories, 39x34 feet, slag roof, cement floors, metal lath, stone foundations, rolled steel sash, fire and kalamein doors, roof ventilators. Architects have received bids.

Police Station (alts. and add.), First District, Trenton, N. J. Architect, J. Osborne Hunt, Trenton, N. J. Owners, City of Trenton, care of George B. LaBarre, Commissioner, Trenton, N. J. Brisk, terra cotta and steel, 3 stories, 90x48 feet, slag roof, concrete, oak and tile floors, hollow tile, metal lath, rolled steel doors, hollow metal doors, fire escapes, iron stairs, iron work, marble work, stone foundations. Architect taking bids, due May 28th. Standard Const. Co., 1713 Sansom st., Philadelphia, is figuring.

New Jersey Contracts Awarded

Residence, Westville, N. J. Architect, Walter F. Price, 136 South Fourth street, Philadelphia. Owner, Henry W. Leeds, Westville, N. J. Frame, 2 stories, 26x26 feet, shingle roof, electric lighting, pine floors. Contract awarded to L. H. Sinquett, Paulsboro, N. J.

Park Improvements, Second and Cooper streets, Camden, N. J. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, City of Camden, City Hall, Camden, N. J. Donor, Eldredge R. Johnson, president, Victor Talking Machine Co., Camden, N. J. Stone and concrete work, landscape work. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

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Delaware Construction News

Y. W. C. A. Building, Ninth and King streets, Wilmington, Del. Architect, A. C. May, Dupont Building, Wilmington, Del. Owners, Y. W. C. A., care of architect. Brick, steel and cut stone, 5 stories, 133x73 feet, composition roof, tile, marble and terrazzo work, stone foundations, composition and oak floors, hollow tile, metal lath, safety treads, roof ventilators, waterproofing, dampproofing, iron stairs, iron work (heating, electric work, elevators and plumbing reserved). Architect taking bids (revised) May 26th. Standard Const. Co., 1713 Sansom street, Philadelphia, are figuring.

Residences (2), 1915-17 West Second street, Wilmington, $11,500. Architect, private plans. Owner, Fortunato Pileggi, 204 West Union street, Wilmington, Del. Stone, brick, 2 stories, 22x33 feet, stone foundations, tin roof, pine floors, electric lighting, tile work. Owner will build.

Theatre, 510 Market street, Wilmington, Del., $97,300. Architect, private plans. Owner, Lapkis Ginns Corp., 420 West Twenty-second street, Wilmington. Brick, iron, concrete, 1 story, stone foundations, slag roof, tile and hardwood floors, steam heating, electric lighting, tile and marble work, fire doors, roof ventilators. Owners will build.

Residences (3 pairs), Cleland Heights, Del. Architect, J. Dockery Thompson, Ford Building, Wilmington, Del. Owner, J. Wirt Willis, 508 West Eleventh street, Wilmington, Del. Brick and concrete, 2 stories, 37x31 feet, concrete foundations, composition roof, hardwood floors, pipeless heater, electric lighting, tile work. Architect has received bids.

Store (alt. and add.), 705-07 King street, Wilmington, Del. Architect, E. L. Rice Co., 815 Market street, Wilmington, Del. Owner, Dominick Salvatore, on premises. Brick, 2 stories, 39x19 feet, stone foundations, slate and tin roof, tile and pine floors, electric lighting, tile and marble work, plate glass, hollow metal skylights, roof ventilators, interior and exterior alterations. Architect will be ready for bids May 24th.

Delaware Contracts Awarded

Store (alt.), 418-20 Market street, Wilmington, Del., $13,000. Architect, P. P. Owner, R. Lapkis Sons, on premises. Interior and exterior alterations. Contract awarded to D. L. Lapkis, 420 West Twenty-second street, Wilmington, Del.

Residence, 1504 West Seventh street, Wilmington, Del., $6,000. Architect, private plans. Owner, F. D. Onofrio, 527 Tindall street, Wilmington, Del. Brick, 2 stories, 21x35 feet, stone foundations, slag roof, pine floors, hot water heating, electric lighting. Contract awarded to E. Di Salvatino, 415 Lincoln street, Wilmington, Del.

Stores (alt. and add.), 617-19 Market street, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Kennard Pyle Co., 623 Market street, Wilmington, Del. Brick, 3 stories, interior alterations. Contract awarded to William D. Haddock Co., Wilmington, Del.

Miscellaneous Construction News

Hospital Buildings, Winston Salem, N. C., $1,000,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, City of Winston Salem, Winston Salem, N. C. Hollow tile, brick, steel, concrete and cut stone. Buildings A, 2½ stories, 88x43 feet, B, 4 stories, 45x150 feet, C, 2 stories, 14x105 feet, D, 5 stories, 126x45 feet, E, 2 stories, 14x74 feet, F, 2 stories, 14x104 feet, G, 1 story, 137x47 feet, tunnel, 10 feet wide long, slag and slate roof, cement, composition, cork, tile and marble floors, hollow tile, metal lath, elevators, safety treads, roof ventilators, waterproofing, dampproofing, iron work, hollow metal sash and skylights, fire doors, tile, marble and terrazzo work, electric lighting, stone foundations (heating reserved). Architect taking bids due June 2nd. Laughlin F. McNeill, 841 North Broad street; J. Sims Wilson Co., 1125 Brown street; Warren Moore Co., Colonial Trust Building, all of Philadelphia, and Harwood & Moss, Newport News, Va.; J. S. Cornell, Morris Building, and Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, and J. L. Crouse, Greensboro, N. C., are figuring.

School Building, No. 65, Baltimore, Md. Architect, E. H. Glidden, Baltimore, Md. Owner, Board of School Commissioners, Baltimore, Md. Granite, stone, brick and steel, 3 stories, 111x63 feet, slag roof, metal lath, pine and granolithic floors, roof ventilators, metal ceilings, waterproofing, dampproofing, iron work and stairs, fire escapes, electric light, steam heat. Owners have received bids.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 14, 1920. Sealed proposals will be opened in this office at 3 P. M., June 11, 1920, for remodeling the main building of the United States Marine Hospital at Boston, Mass. Drawings and specifications may be obtained from the superintendent of construction, Room 437, Post Office Building, Boston, Mass., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 7, 1920, for furnishing certain materials for the construction of the main hospital, transformer building, gas house, and an extension to the present boiler house, and certain approach work for the United States Public Health Service Hospital at Sewell's Point (Norfolk), Va., including materials for mortar, concrete, macadam, brick work, waterproofing, plastering, lumber, painting, etc., in accordance with drawings, specifications and bills of quantities attached thereto, copies of which may be obtained from the Medical Officer in Charge, U. S. Public Health Service, Custom House, Norfolk, Va., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 7, 1920, for furnishing certain materials for the construction of the main hospital, transformer building, gas house, and an extension to the present boiler house for the United States Public Health Service Hospital at Sewell's Point (Norfolk), Va., including reinforcing metal, structural tile, gypsum blocks, miscellaneous iron work, sheet metal work, hollow steel doors, interior marble and slate, mill work, fly screens, linen chutes, hardware, plumbing, heating, electric work, etc., in accordance with drawings and specifications, copies of which may be obtained from the Medical

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INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 7, 1920, for furnishing the necessary labor and materials for the composition roofing, stucco work, and cork insulation required in the construction of the main hospital, transformer building, gas house, and an extension to the present boiler house for the United States Public Health Service Hospital at Sewell's Point (Norfolk), Va., in accordance with drawings and specifications, copies of which may be obtained from the Medical Officer in Charge, U. S. Public Health Service, Custom House, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

SEALED PROPOSALS.

PICATINNY ARSENAL, DOVER, N. J.—Sealed proposals for installing water distribution system at this Arsenal will be received until 2 o'clock P. M. June 1, 1920. For information address Commanding Officer.

We printed in GUIDE of May 19th a report of the Committee on Community Planning of the American Institute of Architects and received the following commendation:

COMMITTEE ON COMMUNITY PLANNING
of the
AMERICAN INSTITUTE OF ARCHITECTS
112 *South Sixteenth Street*
Philadelphia, Pa.

May 20, 1920.

Subject: Report of Committee.

Mr. Louis S. DeLone,
THE BUILDERS' GUIDE
Perry Building, Phila., Pa.

My dear Mr. DeLone:

I wish to thank you for publishing our report. You are the only publicist in Philadelphia who is willing to print facts and opinions regardless of time-honored and worn-out theories.

Very sincerely yours,
JOHN IRWIN BRIGHT,
Chairman.

REBUILT HOUSES ARE PROFITABLE

The immediate demand for moderate priced and yet modern apartments in the San Francisco bay district, particularly near the industrial centres has developed a new line of building operations that has proved successful and profitable—the remodeling of well constructed buildings of old type and transforming them into up-to-date apartments. There are quite a number of such buildings scattered through the older parts of San Francisco and Oakland, and it has proved profitable work for the owners to remodel these buildings to meet the demands of the day.

The owners of the buildings of this type have viewed with apprehension their constantly decreasing revenue with increasing depreciation, a condition recognized as due to the fact that tenants today do not merely seek, but demand, modern housing.

Steady increase in manufacturing and the general business growth of our cities is resulting in like increase of the worker and co-worker. There is an ever-growing call for two and three-room apartments by those who demand modern housing. Ordinarily it requires a considerable investment to erect an apartment house, and to the man prepared to invest only a few thousand dollars this is a seeming impossibility. A recent careful survey of a number of old residences and flats led us to believe that with a very nominal expenditure such buildings, nonproducing, could readily be converted into income property, netting a most satisfactory return.

As an instance of the actual result to be obtained is cited a building of obsolete type now producing good revenues. It originally embodied but one home normally renting for $35 a month. The condition of the building was such as to make it legitimate prey for the house wrecker. Remodeling involved a cost of only $6500, yet the owner today has a modern apartment building of six suites, each comprising two or three rooms, and all exceptionally well lighted and ventilated. The owner receives a rental of $200 per month or $2400 per annum. His gross return on the investment is 36 per cent. It is of interest to note that but ninety working days were required to effect the transformation.—*Architect and Engineer.*

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.

CONCRETE HOUSING

BY IRVING K. POND, *Architect*

I have written so much abstractly on architecture and architectural principles that it is good again to get down to hard and fast matters and fix my hypotheses in the concrete. I say "again" for many years ago, as chairman of the Committee on the Allied Arts of the American Institute of Architects, I was the author of a widely circulated report from that committee dealing with concrete as a medium of architectural expression. I have had but slight occasion to put into practice the theories I then advanced, but I have continued to hold, and still maintain them.

Since that time the use of concrete in building operations has grown apace and enthusiasts and specialists have arisen to scatter their words and their works broadcast—sometimes, though not always, the words being more attractive than the works—sometimes the words and the works alike bordering on the grammatically atrocious—as for instance when the beauties of cast-rock faced concrete blocks have been urged and the monstrosities themselves have made pitiable what otherwise might have been semi - respectable structures — "semi," mind you, not "wholly" respectable; for the taste which could advocate, and incorporate into its product, such base imitations could not create or fashion a thoroughly respectable structure. Some two years ago while acting as chairman of a board to adjust and settle perchance, jurisdictional differences between the carpenters, the architectural iron workers and the sheet metal workers of Chicago, I suggested facetiously that the fabricators of imitations should be penalized by giving over to the trades whose products were imitated the erection of all such imitations. Thus stone masons should erect all tin fabrications simulating stone cornices, architraves or entablatures; and do plastering where plaster simulated Caenstone—one might put it "con"-stone—on walls and in vaulted ceilings. My pleasantry was met with hearty and strenuous disapprobation—each trade wanted to tell its own little lie and to reap the benefits which each felt certain would accrue to it in a world so lightly endowed with the elements of sincerity or of good taste.

So my first item of advice, if I may be permitted to offer advice to a body of men interested in the development of or handling a comparatively new and altogether worthy building material, is to treat the product with respect, to shun and scorn imitations, to recognize limita-

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tions, which attach to all materials, as well as to all men, and to work within those limitations. This is not saying that because a thing has been done, frequently and appropriately done, in one material it shall not be done in another or a new material which may be employed with equal propriety.

What these characteristic forms may be is a subject for very searching study and analysis. Possibly through synthesis rather than analysis will the characteristic forms disclose themselves. So it was in the past with the old materials—so probably will it be with the new.

Now concrete is a material which lends itself to many kinds of manipulation. It can be cast, poured, pressed, assembled in the shop or on the job; it can be applied in liquid or in solid form to the work immediately in hand. So many are the possible methods of its application—such a diversity of means may be employed toward its legitimate ends, that some of its enthusiastic sponsors see in it a panacea for strucural ills and possibly for aesthetic building ills, a substitute for all previously employed materials—excepting, possibly, door hinges—and a perfect end in itself.

It behooves those who can impartially survey the entire field to offer both warning and encouragement—encouragement in its legitimate use, warning against its too free employment ,especially where other materials may better serve the conditions. The economics of the general situation favor concrete and through this factor alone there may arise a tendency toward its too general employment; toward its substitution for other materials which, though perhaps costing more in mere money, satisfy the senses and better fulfill geographic and climatic conditions. The cheapness and ease of casting a flat slab of concrete has led certain enthusiasts to advocate the general adoption of a flat slab type of roof in any and all parts of the country (and ultimately of the world). It is advocated for a northern climate because it can very cheaply be made strong enough to hold a load of snow and ice. But that is not what a roof is for—it is to shed snow and ice. The flat slab roof is advocated for a southern climate because the overhang or shade is so cheaply procured. The shade is desired, but not at the expense of ugliness which results from unembellished overhangs—and concrete embellishments are expensive. The factors of ease and economy in manufacturing concrete slabs, whether to be applied vertically or horizontally, contribute to a "simplicity" which tends toward stupidity and to a barrenness which begets ugliness. Where the general form is stupid and ugly not much in the way of reclamation can be effected by proportioning of windows or application of superficial ornament. If the mass is interesting and appropriately conditioned, geographically and climatically, slight defects in details will not too seriously challenge the taste, but an ugly mass is fatal.

In spite of the fact that the learned ones will point out that concrete was a favorite building material with the ancient Romans, and that traces of it are found attaching to Greece, Egypt and the ancient Orient, concrete as employed by modern Americans is a new material, the science and art relating to which are not fully developed.

Much has been done to satisfy the conditions of its employment—much more remains to be done. The newness of an art, or the suspected newness of an art, is a sufficient cause for criticism or antagonism in the average American eye. We are the most conservative people as regards art and the Arts on the face of the earth. We will not accept materials and methods on their merits and attempt to develop their intrinsic qualities or worth. Art is about the only line along which we are conservative, however; that is, we conserve very little along material lines—and we do sling dead art about recklessly and embalm its forms in lasting and eternally reinforced concrete in which they appear more dead than heretofore conceivable. The fact that they are embalmed in a vital and vigorous material emphasizes the fact of death. There are those who claim that these dead forms are alive—but only to the dead do the dead live! Concrete is a vital material full of character—let us give it its vital forms.

Because concrete has for so long been poured into moulds or forms and because of the coarseness of its ingredients, one of which was stone which could go through a two-inch ring, the earlier designers, and I fear there were architects among them, being dependent upon precedent, and knowing not where else to look, fell upon the crude Spanish detail and broad masses of the early Spanish Missions as representative of what best might be embalmed in concrete. And so Spanish missions distorted into bungalows and cottages and palaces spread like a rash over the face of the country. As technical and mechanical difficulties were overcome and processes refined, the rash itched to take another form of disease and turned into a classic fever, with now and then a touch of Gothic "pains," noted particularly in the traceries on solids and in voids. The fever still burns, the pains still grip. Expensive forms are built up and destroyed to produce effects which already, *ad infinitum, ad nauseum,* have been better achieved in stone. However, this is not always to be.

The waste entailed in the destruction of specially constructed and expensive forms has become apparent to many concrete users and exploiters, and their efforts to prevent the consequent loss, especially in case of the smaller residences and the houses with which this conference is more particularly concerning itself, has introduced an element which may well call for restraint in its application. For the sake of economy forms are used and re-used in close proximity. When such forms are not perfect in themselves and in utmost good taste, monotony in repetition becomes deadly, and woe is it to him whom cruel fate has condemned to inhabit a unit in an environment so constituted. Life and joy and self-respect must be absent from the dweller amid such surroundings. Even where the forms are charming and singly in good taste, repetition robs them of individuality and unfits them for occupancy by anyone possessed of character and personality. Individuality of character and personality are absolutely necessary in the units which go to make up the mass of a civilized and self-respecting society.

Consequently another injunction, which I offer by way of advice, is to avoid wastage of forms—but even more to avoid the monotony which must follow the unrestrained employment of any "motif," ugly or charming. Introduce spice into life in the way of variety. The principle underlying this admonition is just as applicable to a mill town as it is to the most highly developed suburb. In point of fact little or no distinction should be drawn between the mill town and the "swell" suburb. It should exist possibly only in the size of units; it should not exist in the expression of good taste and mental and bodily comfort. Perhaps I am getting ahead of the age and of the present topic. I hope not.

In spite of the manifold and varied means, methods, processes, applications, manipulations—textures, surfaces and colors appertaining to the use and employment of concrete as a medium of architectural expression and embodiment, I am not certain that I should advise its sole and unlimited agency in housing the activities of any one neighborhood or community. Indeed I am quite certain that I should not so advise; and this not altogether on the ground of a needed var-

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

iety, but that there are other materials which transcend even concrete as a medium of certain desired expressions of the human spirit in the art of architecture. And I should desire to see no community curtailed of, or denied, the right and power to express the best that is in it in the materials best adapted to that expression. Thus marble, granite, iron, bronze, brick, slate, each one possesses inherent qualities or characteristics not translatable into concrete even through the agency of base and artificial imitation. In the matter of brick, for example, there is scale to the unit which relates the mass to human desire and experience in an intimacy possible with no other material, while in natural color and texture the range is boundless. But, even with all that, brick needs other materials in its neighborhood for contrast and variety, purple-green or slate, soft white of stucco, weathered grey of timbers, with carvings and turnings; and craftsmanship which cannot be imparted by a mould however exquisitely the surface be wrought by the modeler's hand.

I assume that as an architect I am expected to say that the only way to make concrete an accredited and acceptable building material, adapted to all human and aesthetic needs, is to have its essence filtered through the alembic of the architectural profession, or its representatives. If you wish me to say it, of course I will—with reservations.

Now the most stupid of anacronisms are perpetrated by so-called architects; (they really are untutored archaeologists, or rather grave robbers) and the most blatant of modernisms, cut off from all context of history, have emanated from, again, so-called architects, (they really are unlettered sentimentalists). But I will say that the possibilities of concrete as a medium of aesthetic expression in building may best be apprehended by a sincere architect, with knowledge of modern social conditions and tendencies, working in co-operation with those who know the material at first hand and who also are sincerely working to exploit nothing, but to develop the latent and inherent possibilities of a worthy material. Such architects exist, such material men exist. They should come together. It should be a function of such conferences as this to bring them together.

I must say one word here as to what should characterize the architect in whom the material man and the public may well place their confidence, being assured that his will be leadership—real leadership and not selfish and autocratic domination. That architect must not exploit any material or system, but must be able to recognize, and free to employ the most effective and appropriate under the individual conditions. He must sense the sociological, including social, the ethical and aesthetic tendencies of his time so as to aid his client in the expression of them, curbing wasteful, demoralizing, disintegrating tendencies, and aiding toward social unification; diagnosing present conditions and meeting the situation with skill and clarity of vision rather than in applying formulae learned by routine in the schools. The architect should think in advance of the public and see the goal and the way thereto more clearly. Pity the public which follows, and condemn the architect who pursues, the selfish and blind course.—*Architect and Engineer.*

FINISHING ATTIC ROOMS TO RELIEVE HOUSING CONDITIONS

Housing congestion is to acute that the finishing of attic rooms is receiving attention by Chicago building authorities, especially by Building Commissioner Bostrom. It is estimated that there are in Chicago about 180,000 attic rooms which can be finished and made livable, accommodating 200,000 lodgers. If these rooms are finished and made attractive at an average cost of $600 each and rented for an average of $10 per month, the gross return would represent 20 per cent. on the investment, the total investment being $108,000,000.

While housing laws do not permit the cooking or living quarters in the third story of frame buildings, in which most of these rooms would exist, they might permit of sleeping quarters and the rental would be very modest. The r ooms could be properly finished and insulated so that they may not be too hot in summer or too cold in winter and halfway measures in remodeling them will not be profitable in the long run. If adequately done, they will assist the permanent resident in meeting higher rent problems and will help relieve the present congestion. The question of finishing attic rooms may be profitably considered by other cities.—*Exchange.*

TAX EXEMPTION ON NEW DWELLINGS

Tax exemption on new houses during a limited period of years, as a means of encouraging construction in the present era of inadequate housing facilities and high costs, is a recent idea which appears to have many points in its favor. Whether there are constitutional barriers to such legislation has not been determined. Certain it is that men experienced in finance have advanced this as a solution of the housing problem, and it is receiving serious consideration in New York and in other States.

The elimination of taxes from new dwellings for a term of years would create at once a tremendous incentive for their construction. It might be advisable to extend the exemption to duplexes and to apartment buildings, throwing about the exemption safeguards to make sure that only buildings carefully planned to meet advanced requirements from the view points of space, lighting and sanitation can benefit by the exemption law. This would be particularly desirable for buildings erected in smaller towns, where the building codes are not exacting, or outside of the jurisdiction of the municipalities. It might be feasible to entirely exempt all detached dwellings and partially exempt apartment buildings.

For the moderate priced home with its site, the owner pays on the average in these years, not far from $200 annually in taxes. That applies to average homes in Northwestern cities, with the assessments based on pre-war construction costs of $5,000 or $6,000 for a dwelling. If new homes are to be assessed on the greatly increased cost of today, the increase in taxes will be very marked. Two hundred dollars is 6 per cent. interest on nearly $3,500—$3,333, to be exact. Removal of the tax on new houses for a period of five or six years would make the home building idea much more attractive to the prospective builder. It would appeal to him for several reasons. —*Architect and Engineer.*

Bricklayer—"Us workmen havent a chance—the contractor makes all the money."

Owner—"Why don't you go in for contracting?"

Bricklayer—Can't; wages are too high."—*Chicago Tribune.*

PASTE THIS ON YOUR DESK

Here is something for all professional men to paste on their desks:

"The artist or the professional man who sells his services for hire is precisely on the same plane as the mechanic who sells his services for hire, in that respect. The quality and value of his services may be different, but he cannot obtain the compensation to which the services are entitled by individual negotiations, except in rare instances; for the sale of service is no part of his professional training, but is a distinct business transaction having no bearing upon the service itself."—*Building Review, New Orleans.*

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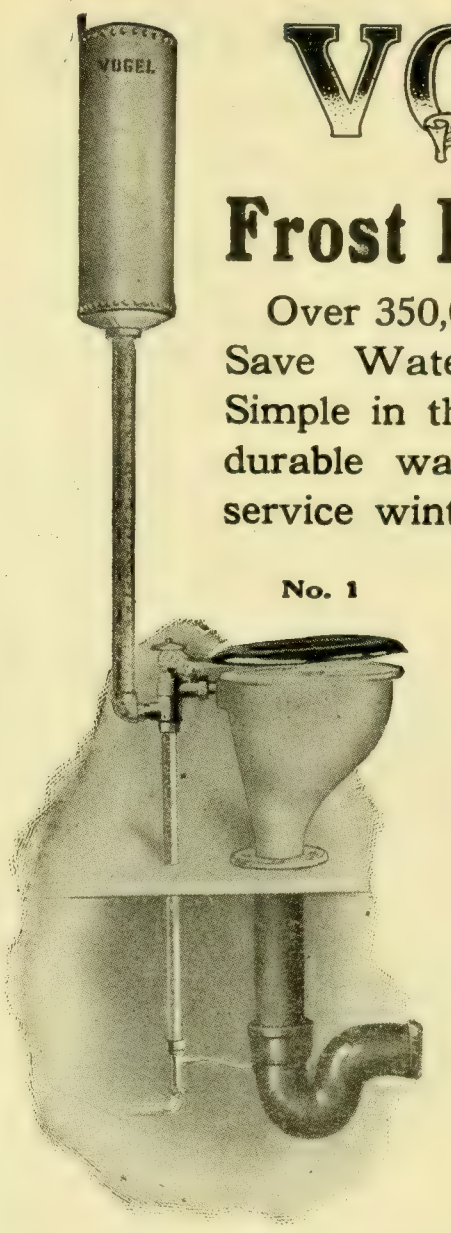
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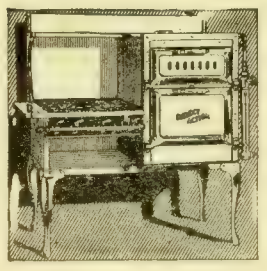
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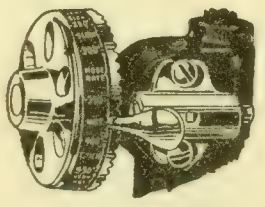
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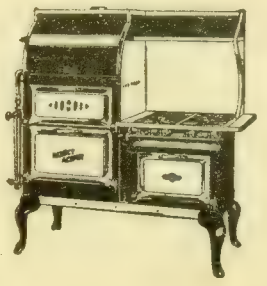
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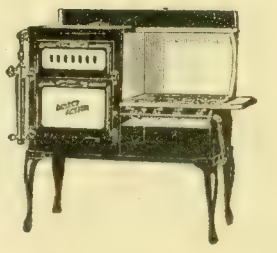
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June 2, 1920

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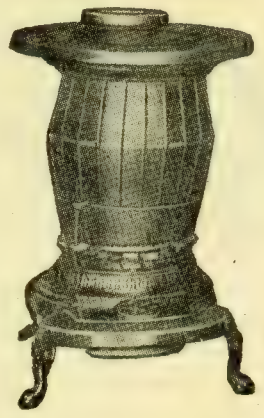
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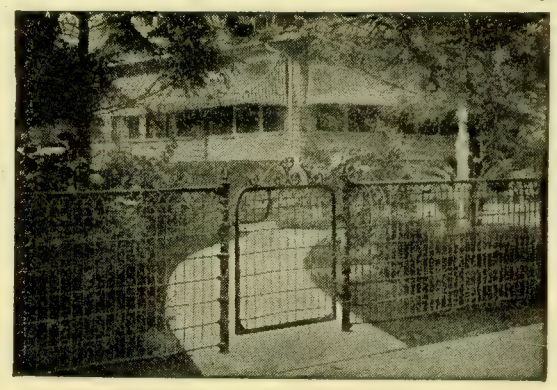
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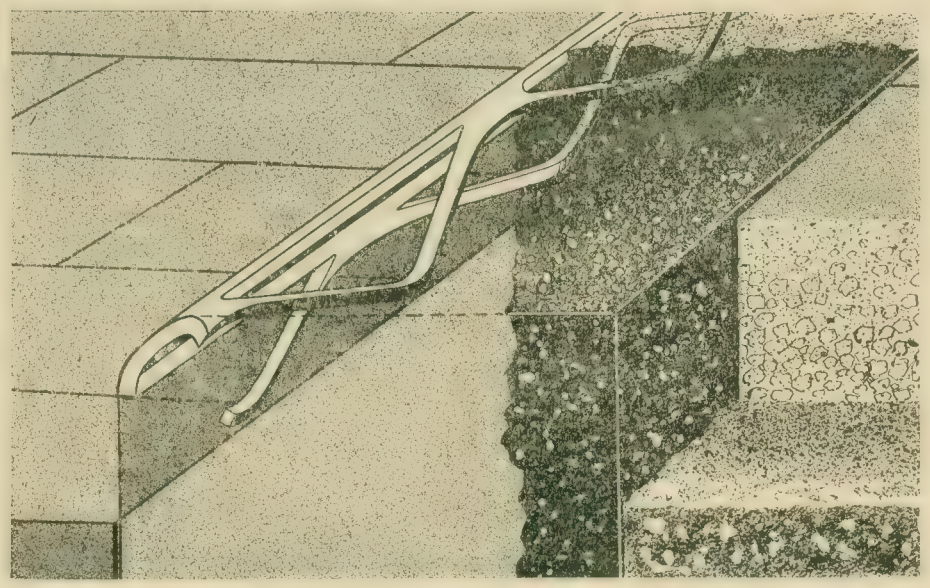
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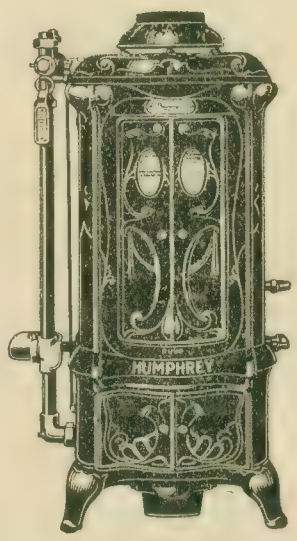


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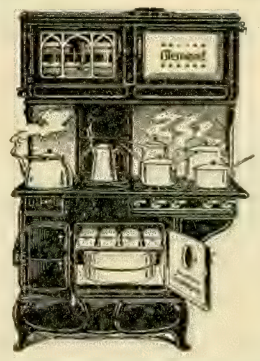
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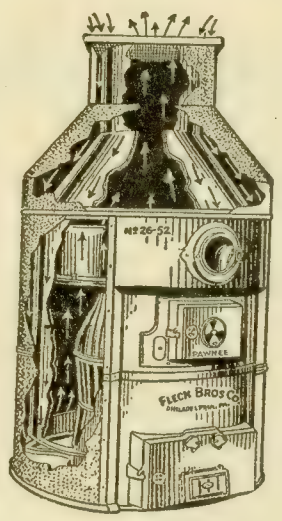


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 22

PHILADELPHIA
June 2, 1920

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

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As The Editor Sees It

The GUIDE recognizes the Delaware River Bridge as one of the vital needs of this vicinity.

The close relation of this project to the interests of the Building Trades makes it of special importance to our subscribers.

We publish, on another page, a comprehensive plan showing the Bridge as the central link connecting traffic routes in both States.

Detailed plans of the Philadelphia and Camden approaches have been published in previous issues of the GUIDE. These with the accompanying articles, were prepared by E. Simpson Lemmon, Engineer, whose thirty or more years' active practical experience in designing and directing construction of important public and private work entitles him to consideration as an authority in such matters.

* * *

THE best possible conditions are none too good for an essential industry, such as the Construction Industry. Now, as never before, every effort is being made to serve—architect, engineer, builder, all are striving to build with a view to comfort, beauty and permanence. The best results cannot be obtained without satisfactory building codes.

"There is such a thing as proper building codes," says *The Clay-Worker,* "and it is about time for us to recognize this as a more important matter than promoting of class interest. The real interest to keep in mind in framing a proper building code is the interest of those who build and occupy buildings entirely apart from their specific business connections. This is the light to look at the matter from, and the clayworkers can well afford to look at it this way without emphasis or special coloring to make their producers appear in a stronger light. The products of other building material will eventually have to look at it this way, and the sooner all take a broader view and get together in the matter of proper building codes in the right spirit the better it will be for the building material business, as well as for the general public.

Mr. Frederick W. Lumis presented some interesting views on the subject of Building Codes at the recent National Conference on Concrete House Construction. Said Mr. Lumis:

In studying the art of house building, we discover that the most successful houses do not depend upon ornament, nor any particular kind of material, for their success, but rather upon good lines, simplicity and reasonableness. Any building worthy to be called a house should be built of enduring material, and with proper care should serve three or more generations. Whether the material is wood, or brick, or stone, or concrete—the thought of permanence should always be engrossing, if not paramount.

Much time and thought have been given to the study and examination of building materials. They all have their virtues, their limitations and defects. However, we will consider only the house built with concrete.

Before a house or other building can be erected in any of our cities, an application for a permit to build must be made, a plan must be filed, also a written statement describing the character, materials, use, and location of such building; all showing the purpose of the builder to comply with the requirements of the State and local building laws.

It will be interesting, therefore, to examine briefly the building laws or codes of some of our larger cities, so as to learn, if possible, their various regulations and restrictions as they apply to and effect the concrete house.

In considering the codes which I have mentioned, it will be observed that the requirements are general and not specific. Alike to the warehouse—a thousand feet long—and to the cottage—with partitions serving as diaphragms, extending in all directions, tying and bracing the whole structure, every few feet.

The vertical supports and walls in large structures are designed principally with respect to their compressive strength; but the designer of a concrete house is not permitted to utilize any such economies.

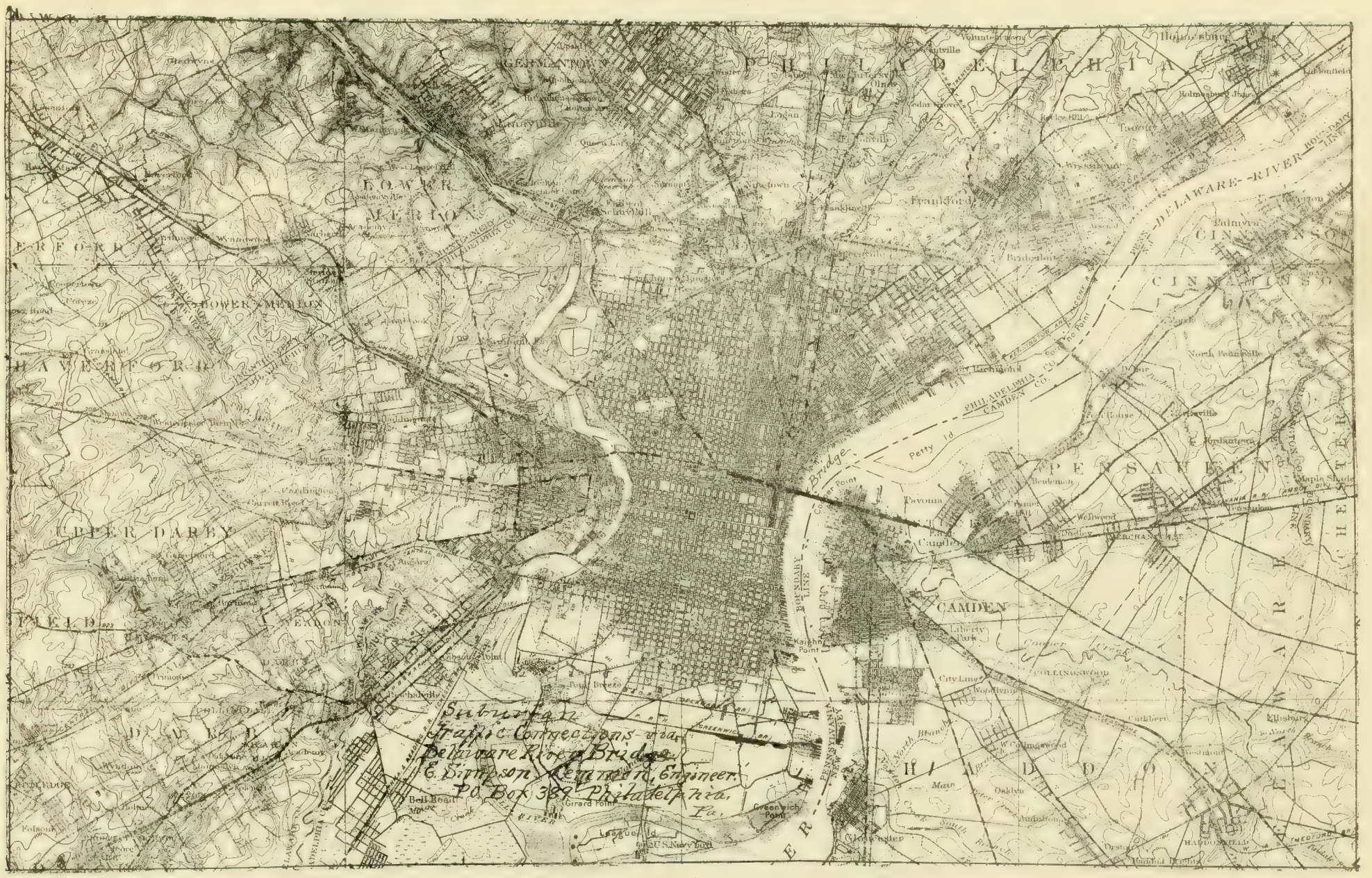
I have tried to condense typical, exist-

(Continued on Page 530.)

DRAWING MATERIALS

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BLUE PRINTS



INTERSTATE AND SUBURBAN TRAFFIC CONNECTION VIA THE DELAWARE RIVER BRIDGE

E. SIMPSON LEMMON, *Engineer*

The Delaware River Bridge can serve the interests of the public only if located and built in accordance with certain well-defined requirements.

It must conveniently provide for national, interstate and local traffic.

It must avoid as far as possible adding to present congestion.

It must not necessitate ruthless destruction of valuable permanent improvements.

It must furnish by its accessibility opportunity for use by public utilities.

It must incidentally improve property adjacent to its location.

It must not be prohibitive in cost; and, most important of all, it must be practical from every standpoint.

When these requirements are considered, the location of the Bridge becomes automatically determined. Whether by the process of elimination or by the selective method the result remains the same.

The plan above shows the "Lemmon Comprehensive Bridge Location" in its relation to surrounding territory with the bridge in solid black lines, while the dotted lines indicate some of the many main arteries of travel that center at this natural location requiring but this one link to join them into a combination of highways serving one great community of common interests.

As may be readily seen, the location brings the Bridge into the center of Philadelphia, but just outside of the congested district, with easy access to the river front both north and south.

If built without disturbing any of the present street grades, it would come to the street level at Ninth and Buttonwood Streets, but during the past forty years there has been intermittent agitation demanding the elimination of the grade crossings along Willow Street.

If this work could be constructed in connection with the Bridge, then Fifth, Sixth, Marshall, Seventh, Franklin and Eighth Streets would become natural approaches to the Bridge.

The dotted lines show some of the many highways reaching a focus at Spring Garden Street on the Philadelphia side, while virtually all north and south streets are important arteries again branching out into suburban and **distant territory.**

The solid black lines show the Bridge in the center of the drawing.

The eastern end could furnish an outlet over Cooper's Creek via a high level bridge at State Street for all New Jersey points east and northeast of Central Camden, thus replacing the draw-bridge that otherwise would probably soon be replaced by another of the same type, such as now obstruct traffic in that direction, at all Cooper's Creek crossings.

The southern Camden approach, with its extended traffic lines, runs through the very center of Camden giving convenient access from all points of that city, while roads to outlying districts open like a fan from the Camden end of the Bridge.

Philadelphia's Standard Trolley Gauge differs slightly from the New Jersey Standard, so that special rails would be required on the Bridge and for the Terminal loops to accommodate both lines; but that is a very easy matter to care for.

The location offers easy connection for all the railway lines on both sides, and the community of interest plan works so well where both railways use the same tracks for many miles (for instance, south of Winslow Junction) that the same principle could apply here, as the

(Continued on Page 530.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Artillery Shop, Building No. 239, Shrapnel Shop, Building No. 231, **Plating Shop,** Building 126-127, **Artillery Loading Shop,** No. 240 **(alts.),** Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Concrete work, iron and steel, carpentry, slag roof, glazing, metal lath, plastering, painting, plumbing. Owners taking bids due June 7th. William R. Dougherty, 1610 Sansom street, are figuring.

Schools, various locations, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Alterations and additions to schools, equipment, paving, sanitary improvements. Owners taking sub-bids and bids due June 3rd at noon. Mitchell Bros., 2125 Race street; J. H. Jordon, Thirty-first and Oxford streets; H. H. Burrell, 206 South Quince street; George Dobbin, Forty-second and Chester avenue; William Christy & Son, 1614 McKean street, and Wark & Co., 1737 Filbert street, are figuring.

Residence (add.), 1008 South Forty-sixth street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, Thomas Slattery, 1008 South Forty-sixth street, Philadelphia. Brick, 2 stories, 27x14 feet, slate roof, pine floors, stone foundations, electric lighting, tile work, iron work. Architect taking bids due June 8th. William R. Dougherty, 1610 Sansom street; Warren E. Biscoe, 4039 Ludlow street; Graham & Wells, 3649 Filbert street; M. Melody & Son, 1322 Race street, and J. D. Fisher, 5414 Thompson street, are figuring.

Hospital (alts.), Broad and Catharine streets, Philadelphia. Architect, H. L. Duhring, 1112 Chestnut street, Philadelphia. Owner, Howard Hospital, Broad and Catharine streets, Philadelphia. Architect taking bids due June 4th. F. B. Davis, 240 North Sixteenth street; F. E. Wallace, 1220 Chancellor street, and Robert E. Lamb Co., 843 North Nineteenth street, are figuring.

Medical Department Building, Tenth and Ontario streets, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Surpass Leather Co., Ninth and Westmoreland streets, Philadelphia. Brick, 1 story, 80x80 feet, slag roof, cement and tile floors, safety treads, roof ventilators, iron work, tile and marble work, stone foundations (plumbing and electric work reserved). Architects has received bids.

Club House (alts. and add.), 1029 South Seventeenth street, Philadelphia. Architect, C. Henry Wilson, 1928 South College avenue, Philadelphia. Owners, Southern League Beneficial Association, care of George Adams, Building Committee, on premises. Brick, 3 stories, 18x52 feet, slag roof, hardwood and composition floors, steam heating, electric lighting, stone foundations. Owners will be ready for bids in a week.

Rooming House, Northeast Corner Eighteenth and Fitzwater streets, Philadelphia. Architect, C. Henry Wilson, 1928 South College avenue, Philadelphia. Owner, Elias Sims, 1418 South street, Philadelphia. Brick, 4 stories, 33x40 feet, slag roof, hardwood and pine floors, stone foundations, hot water heat, electric lighting, tile work. Plans in progress. Owner will be ready for bids in one month.

Residence, Eighty-seventh and Laycock avenue, Island Road, Philadelphia. Architect, C. Henry Wilson, 1928 South College avenue, Philadelphia. Owner, James E. Reeves, Eighty-seventh and Laycock avenue, Philadelphia. Brick, 2 stories, 18x60 feet, asbestos tile roof, maple floors, hot water heating, stone foundations, combination lighting, tile work, plumbing. Owner will take bids in two weeks.

Moving Picture Theatre, Eighteenth and Federal streets, Philadelphia. Architect, C. Henry Wilson, 1928 South College avenue, Philadelphia. Owner, name withheld. Stone and terra cotta, 1 story, 32x80 feet, concrete roof and ceilings, cement floors. Plans in progress.

Store and Warehouse (alts.), 633-35 North Second street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, M. Wildstein, 631 North Second street, Philadelphia. Removing walls, new partitions, plate glass interior alterations. Architects and owner taking bids due June 3rd. B. C. Sagel, 3110 Page street, and Robbins Cont. Co., 1137 North Front street, are figuring.

Logan Hall (alts. and add.), Thirty-sixth and Woodland avenue, Philadelphia. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Plastering, carpentry, painting, glazing, composite floors, mill work, plumbing, hardware, slag roof, tile work, hollow metal sash, copper skylights, iron work. Architects have received bids.

Office Building, 5219-21 Chestnut street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Joseph K. Marshall, 8 South Fifty-second street, Philadelphia. Brick, stone and terra cotta, 2 stories, 114x41 feet, slag roof, pine floors, metal lath, stone foundations, steam heat, electric lighting, tile work, ornamental iron work. Owner has received bids and sub-bids.

Residences (2), Germantown, Philadelphia. Architect, Thomas B. Lippincott, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, 2½ stories, 20x40 feet, slate roof, stone foundations, hot air heating, electric lighting. Plans in progress. Will be ready for bids in ten days.

Building (alts.), Fourth and Walnut streets, Philadelphia. Architect, private plans. Owners, Fire Association, Fourth and Walnut streets, Philadelphia. Painting, electric work, heating work, plumbing, ventilators (alterations to basement). Owners have received bids.

Machine Shop (add.), Fifth and Allegheny avenue, Philadelphia. Architect, private plans. Owners, Smith Drum & Co., on premises. Brick and steel, 1 story, 28x49 feet, slag roof, cement floors, rolled steel sash, stone foundations (heating, plumbing and electric lighting reserved). Owners have received bids.

Sales and Service Building, 2207-11 Chestnut street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Deisinger Motor Co., care of Reynold Greenberg, Morris Building. Brick and steel and stone, 120x34 feet, 2 stories, slag roof, pine and tile floors, metal lath, metal ceilings, iron work, rolled steel doors, stone foundations. Architect taking bids due June 7th. D. Henwood, 717 South Sixty-third street; E. E. Hollenback, Inc., 1804 Brandywine street; Wark & Co., 1737 Filbert street; Charles Gilpin, Harrison Building; M. H. McCloskey, Jr., Inc., 1535 Thompson street, and Hogg Const. Co., Denckla Building, Philadelphia, are figuring.

Office Building (alts.), 1511 Walnut street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, West & Co., 1417 Chestnut street, Philadelphia. General alterations. Architects taking bids due June 8th. Warren-Moore Co., Colonial Trust Building; F. A. Havens & Co., 845 North Nineteenth street; Geo. A. Fuller Co., Widener Building; Wark & Co., 1737 Filbert street, and Turner Const. Co., 1713 Sansom street, are figuring.

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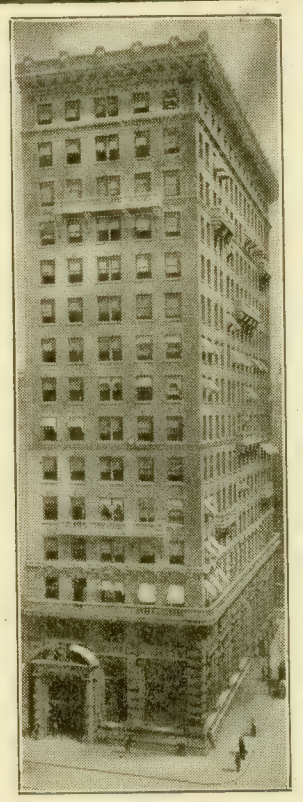
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Residence (alts. and add.), Germantown, Philadelphia, $10,000. Architect, Wesley Lesher Blithe, 608 Chestnut street, Philadelphia. Owner, name withheld. Stone, add. 2 stories, 16x24 feet, slate roof, hardwood floors, electric lighting, tile work, structural steel. Plans in progress.

Garages, vicinity of Fiftieth and Springfield avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick and concrete, 1 story, 22x236 feet, reinforced concrete roof, cement floors, brick partitions (20 garages), concrete foundations, steam heat, electric light. Plans in progress.

Stores (2), Germantown avenue and Venango street, Philadelphia, $14,000. Architect, private plans. Owner, Paul A. Rinck, 3761 North Eighteenth street, Philadelphia. General remodeling, flush bulks, electric lighting. Owner will build.

Garages (16), Ruscomb street, East of A street, Philadelphia, $11,200. Architect, private plans. Owner, L. Mark, 2820 North Twenty-first street, Philadelphia. Brick, 1 story, 13½x17 feet, slag roof, cement floors, electric lighting. Owner will build.

Residence, Northwest Corner Stanwood and Hennig streets, Philadelphia, $8,000. Architect, private plans. Owner, H. B. Hennig, Fox Chase, Philadelphia. Frame and stucco, 3 stories, 37½x27 feet, shingle roof, hot water heat, electric lighting. Owner will build.

Residence, Bustleton avenue, South of Knorr street, Philadelphia, $6,500. Architect, private plans. Owner, Robert C. Riegraf, 4227 Romain street, Philadelphia. Brick, 2 stories, 26x32 feet, slag roof, pipeless heater, electric lighting. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residences and Stores (alts.), 3718 North Broad street, Philadelphia, $6,000. Architect, Carl P. Berger, Penn Square Building, Philadelphia. Owner, Charles Grakelow, Broad and Cumberland streets, Philadelphia. Stone work, brick work, iron work, roof repairs, carpentry, mill work, painting, glazing, tile work, electric light, hardwood floors, heating repairs, add. 1 story, 18x10½ feet. Contract awarded to C. M. Swartley, 6835 Ridge avenue, Philadelphia.

Residences (2) **(alts.),** 2444 North Broad street, Philadelphia, $3,500. Architect, Carl P. Berger, Penn Square Building, Philadelphia. Owner, Charles Grakelow, Broad and Cumberland streets, Philadelphia. Brick work, cut stone, iron work, roof repairs, carpentry, mill work, metal lath, metal ceilings, plastering, tile work, repairs to hot water heating and electric work, painting, plastering. Contract awarded to C. M. Swartley, 6835 Ridge avenue, Philadelphia.

Office Building (add.), Broad and Chestnut streets, Philadelphia, $40,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Land Title & Trust Co., Land Title Building, Philadelphia. Brick, second story add., 35x72 feet, raising present roof, steam heating, electric lighting, details undecided. Contract awarded to George F. Payne & Co., 401 South Juniper street, Philadelphia.

Store and Dwelling (alts.), 320 South street, Philadelphia, $8,000. Architect, private plans. Owner, M. Potanick, 322 South street, Philadelphia. General alterations, electric lighting. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

Residence (alts. and add.), 2040 North Lawrence street, Philadelphia. Architect, C. Henry Wilson, 2nd, 1928 South College avenue, Philadelphia. Owner, Louis Sigel, on premises. Brick, add. 2 stories, 20x16 feet, slag roof, electric lighting, tile work, plumbing. Contract awarded to David Sokolow, 3012 Euclid avenue, Philadelphia.

Garage and Warehouse, Parkside avenue, between Forty-ninth and Fiftieth streets, Philadelphia. Architect, Charles Hickman, Bellevue Court Building, Philadelphia. Owners, Cunningham Piano Co., 1101 Chestnut street, Philadelphia. Concrete, brick and steel, 4 stories, 99x18 feet, slag roof, stone foundations, steam heating, electric lighting, iron work, maple and concrete floors, iron work. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Church and Sunday School (add.), Tenth and Northeast Boulevard, Philadelphia. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, First Christian Church, care of Rev. I. S. Chenoweth, 1418 Euclid avenue, Philadelphia. Stone, 1½ stories, 50x90 feet, slate roof, pine floors, stone foundations, steam heating, electric lighting, kalamein doors, hardware, painting, glazing, mill work, carpentry. Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

Store and Dwelling (add.) for Garage, 5504 North Fifth street, Philadelphia, $2,000. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owner, John Burger, on premises. Brick, 1 story, 20x16 feet, slag roof, cement floors, electric lighting. Contract awarded to William H. Ashton, 5600 Mascher street, Philadelphia.

Garage, York road, South of Somerville avenue, $3,000. Architect, private plans. Owner, A. C. Garrett, on premises. Stone, 1 story, 10x21½ feet, slate roof, cement floor, electric light. Contract awarded to William J. Gruhler & Co., 219 High street, Germantown.

Garage, Logan, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Agents, Provident Life & Trust Co., Fourth and Chestnut streets, Philadelphia. Stone, 1 story, 24x30 feet, slate roof, cement floors, stone foundations, lighting and heating extensions. Contract awarded to William J. Gruhler & Co., 219 High street, Germantown.

Factory, Shunk and Front streets, Philadelphia, $225,000. Architect, William Higginson, 18 East Forty-first street, New York City. Owners, American Mfg. Co., Water and Morris streets, Philadelphia. Reinforced concrete, 2 stories, 390½x153 feet, concrete roof, electric lighting, cement floors, rolled steel sash

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When the time came to roof their new warehouse piers, there was no question in the minds of officials of the Norfolk & Western Railroad as to what roof they would use. They ordered the new buildings covered with Barrett Specification Roofs as a matter of course.

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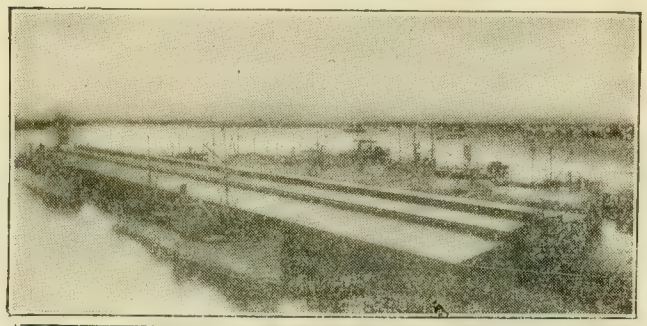
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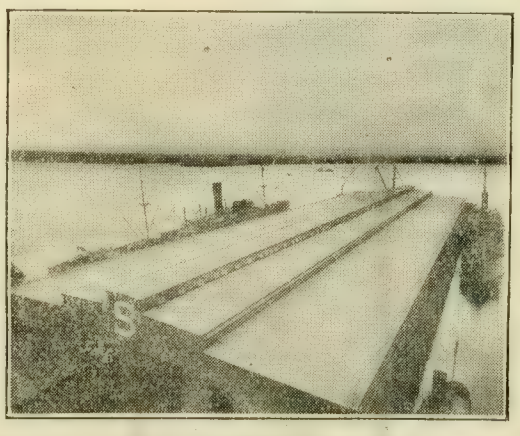
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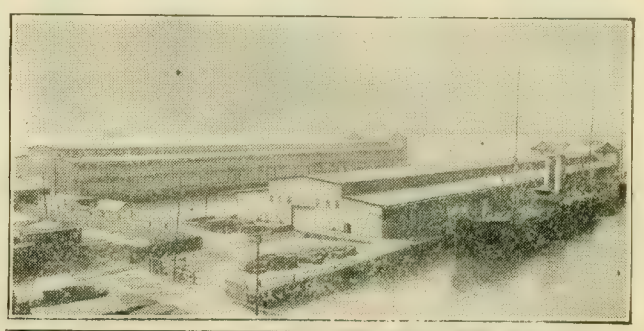
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and skylights, roof ventilators, hollow tile, iron work, iron stairs, safety treads, fire doors, waterproofing. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Dwelling (add.), 2213 St. James street, Philadelphia, $5,000. Architect, private plans. Owner, James Potter, 1300 Walnut street, Philadelphia. Brick work, carpentry, mill work, roof repairs, plumbing, electric lighting, painting and glazing. Contract awarded to Charles Gilpin, Harrison Building, Philadelphia.

Residence (alts. and add.), 7011 Cresheim road, Philadelphia, $5,000. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Edwin Barrett, on premises. Carpentry, mill work, electric work, hot air heat, plastering, painting, glazing and plumbing. Contract awarded to Hogg Const. Co., Denckla Building, Philadelphia.

Store (alts.), 923 Market street, Philadelphia, $5,000. Lessee, L. W. Hirsh, 925 Market street, Philadelphia. General alterations. Contract awarded to La Salle Wooden & Brick Co., 2306 La Salle street, Chicago, Ill.

Residence (alts. and add.) to Apartments, Southeast Corner Thirty-fourth and Powelton avenue, Philadelphia, $37,000. Architect, William B. Riebenack, Guarantee Trust Building, Atlantic City, N. J. Owner, Estate of Max Riebenack, care of architect. Brick, add. 1 story, 18x30 feet, and 7x21 feet, slag roof, oak and pine floors, stone foundations, vapor heating, electric lighting, tile work, iron work. Contract awarded to Mackle-McClelland Co., Drexel Building, Philadelphia.

Store, 6824 Torresdale avenue, Philadelphia, $6,300. Architect, private plans. Owner, William White, 6701 Torresdale avenue, Philadelphia. Brick, 1 story, 20x32 feet, slag roof, electric lighting, pine floors. Contract awarded to M. Morrison, 2322 Howard street, Philadelphia.

Store and Dwelling (alts. and add.), 629 Girard avenue, Philadelphia, $3,500. Architect, private plans. Owner, J. Cohan, 525 South Fifth street, Philadelphia. Brick, 1 story, 17½x37 feet, slag roof, electric lighting. Contract awarded to Charles Belinsky, 2504 South Sixth street, Philadelphia.

Residence (alts. and add.), 1205 Kater street, Philadelphia, $4,000. Architect, private plans. Owner, J. Krass, Twelfth and South streets, Philadelphia. Brick, 1 story, 15x17 feet, slag roof. Contract awarded to Charles Schnetz, 2513 North Thirty-first street, Philadelphia.

Store Building (alts.), 934 Arch street, Philadelphia, $8,500. Architect, private plans. Owners, Gittelman's Sons, 916 Arch street, Philadelphia. Brick, 4½x42 feet, slag roof, maple floors, electric work. Contract awarded to J. Gorchov, 4116 Girard avenue, Philadelphia.

Store and Dwelling (add.) (2), 948-851 North Fortieth street, Philadelphia, $5,000. Architect, private plans. Owner, I. Matzman, 4050 Girard avenue, Philadelphia. Brick, 1 story, 15x10 feet, slag roof, electric lighting. Contract awarded to Alex. Yermanack, 3828 Cambridge street, Philadelphia.

Residences (5), Rising Sun avenue and Cheltenham avenue, $30,000. Architect, private plans. Owner, Aaron Levin, 1622 Point Breeze avenue, Philadelphia. Brick, 2½ stories, 16x45 feet, slate roof, hot water heating, electric lighting, oak floors, tile work. Contract awarded to Morris Levin, 142 Delphine street, Philadelphia.

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Construction News

Store (alt.), 110 South Third street, Easton, Pa. Architect, J. M. Snyder, Trust Building, Easton, Pa. Owner, William Bricker, Third and Lehigh streets, Easton, Pa. Plate glass, general interior alterations, composition floors, steel work. Architect taking bids. Bechtel & Bechtel, F. J. Lerch & Co. and George Lutz, all of Easton, Pa., are figuring.

Residence, Kirklyn, Pa. Architect, J. S. Fuller, 1537 Chestnut street, Philadelphia. Owner, Charles E. Stokes, care of architect. Frame, 2½ stories, 26x27 feet, shingle roof, pine floors, stone foundations, hot air heating, electric lighting, iron work. Revised plans in progress.

House (alts.), Merion, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Boy Scouts of America, Merion, Pa. Carpentry, mill work, painting, glazing, electric work, metal lath, plastering. Architects taking bids due as soon as possible. H. E. Grau Co., 1707 Sansom street, and Doyle & Co., 1519 Sansom street, are figuring.

Church, Fillmore and Glenwood streets, Cresmont, Pa. Architect, C. Henry Wilson, 2nd, 1928 South College avenue, Philadelphia. Owners, Baptist Congregation, care of architect. Stone, 1 story and basement, 40x80 feet, slate roof, hardwood floors, stone foundations, steam heating, electric lighting. Plans about completed. Architect will take bids in one month.

Garage, Souderton, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Souderton Garage, Souderton, Pa. Brick, 1 story, 62x110 feet, slag roof, cement floors, trussed steel roof, hollow metal doors, steam heating, electric lighting. Architect has received bids.

School, Willow Grove, Pa., $75,000. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Upper Moreland School District, Willow Grove, Pa. Brick and hollow tile, 1 story, 147x54 feet, wing 78x40 feet, slate roof, pine and composition floors, stone foundations, steam heating, electric lighting, plumbing, ventilators. Architect taking bids due June 15th. Specht & Sperry, Heed Building, Philadelphia, and William H. Clymer, Riegelsville, Pa., and E. Allen Reeves, Abington, Pa., are figuring.

Residence, Elkins Park, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Russell Spruance, 135 South Second street, Philadelphia. Frame and stucco, 2½ stories, 51x30 feet, slate roof, pine floors, electric lighting, iron work, stone foundations (plumbing, tile work, heating and hardwood floors reserved). Architect taking bids due June 9th. E. Allen Reeves, Abington, Pa.; A. L. Fretz & Son, Heed Building; T. S. Fetter, 1829 Filbert street; I. K. Davis, Twentieth and Spencer streets, and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Residence, College Heights, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Mr. M. F. Gietherz, Allentown, Pa. Hollow tile, stucco, 2½ stories, 29x35 feet, concrete foundations, slate roof, hardwood floors, steam heat, elec-

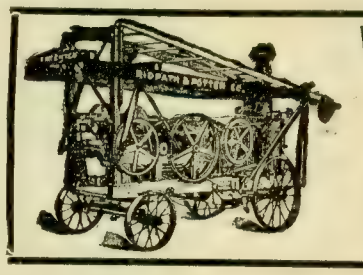


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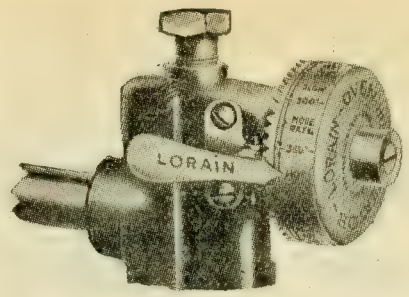
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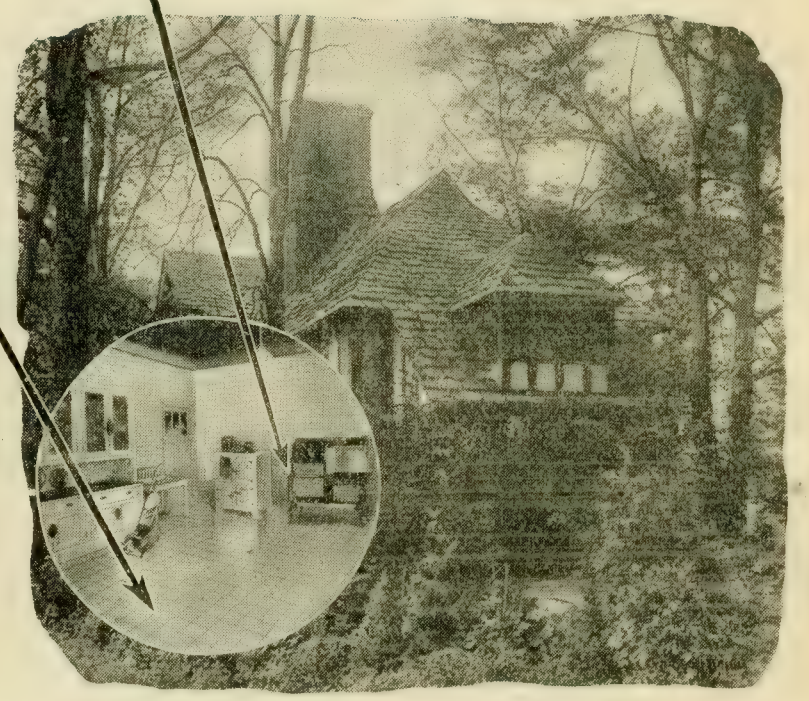


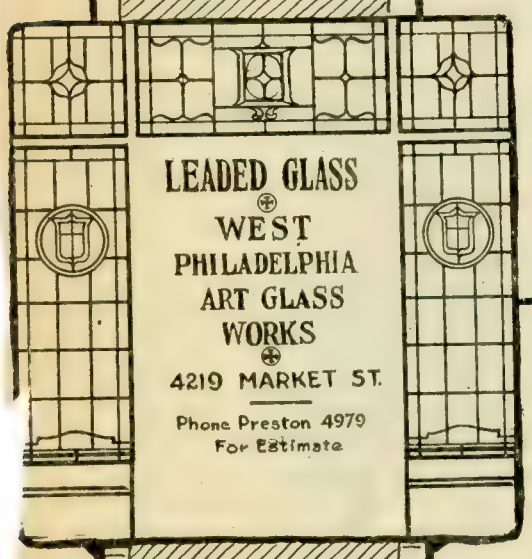
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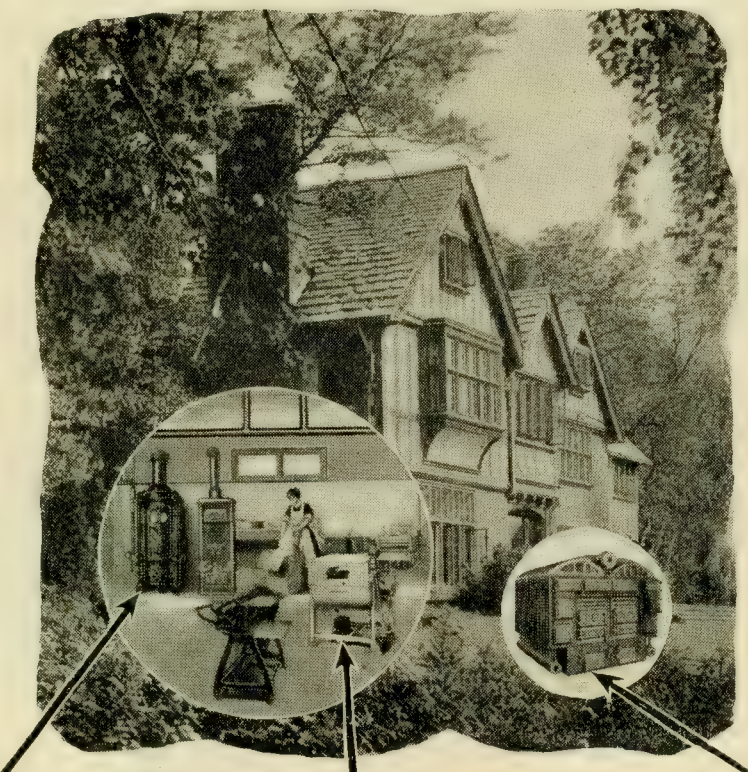




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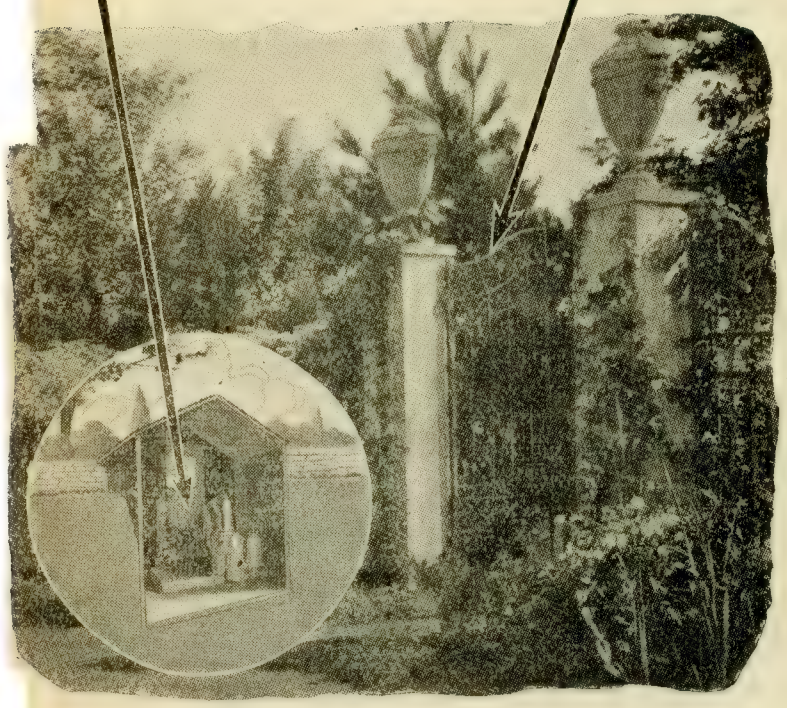
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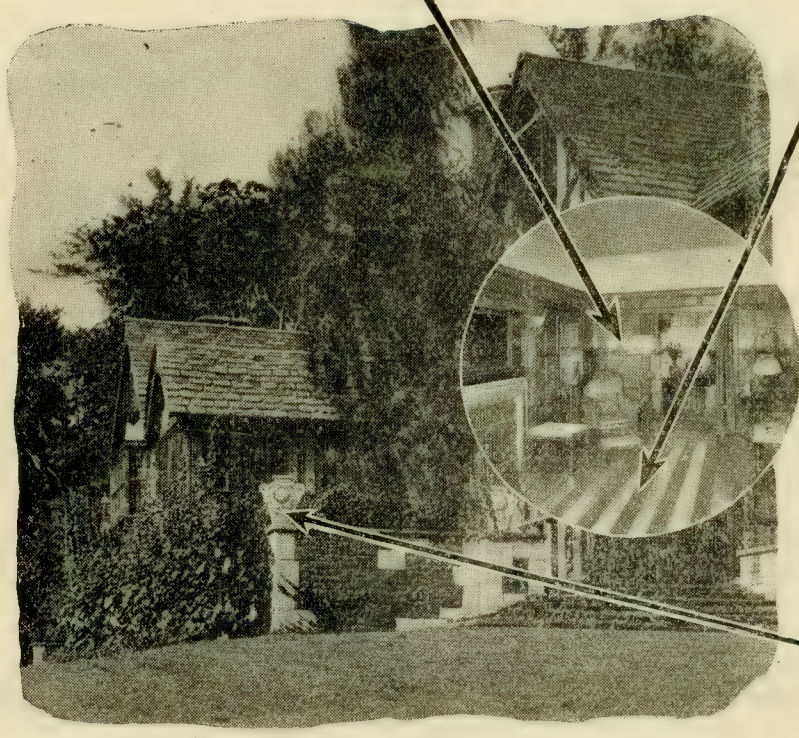
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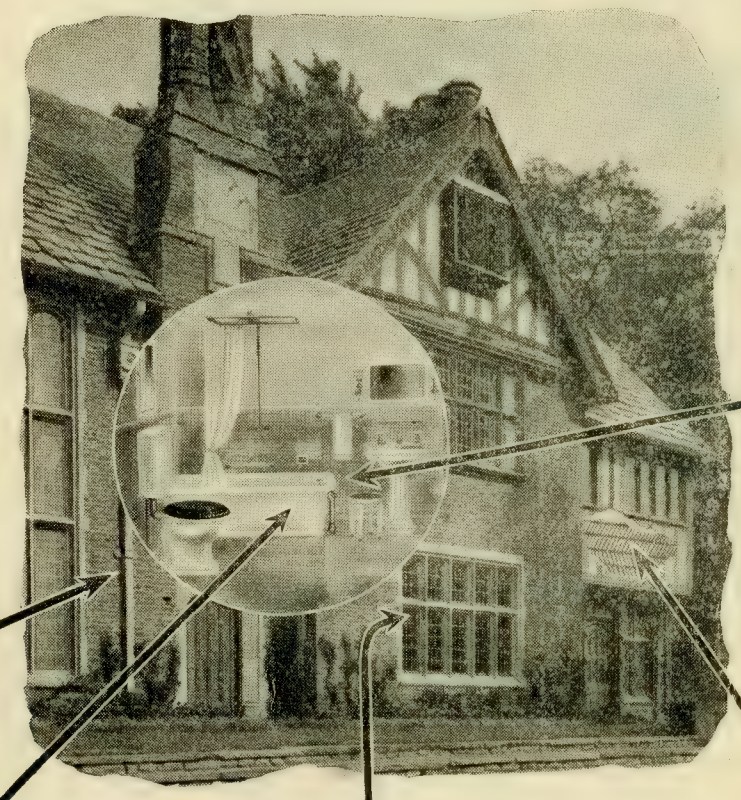
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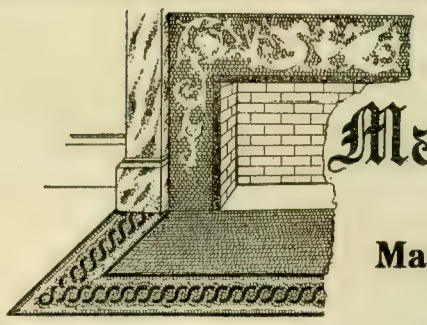
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tric light. College Heights Co., Allentown, Pa., will take sub-bids.

Schools (alts.), Allentown, Pa. Architect, E. H. Wenzelbelger, Reeder Building, Easton, Pa. Owner, School Board of Allentown, George Wenner, secretary, Allentown, Pa. General interior alterations, maple floors, new plumbing, school equipment. Plans in progress.

Residence, College Heights, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Charles Beckwith, Jr., care of M. H. Taylor Co., Allentown, Pa. Hollow tile, 2½ stories, 48x25 feet, concrete foundations, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. College Heights Co., Allentown, Pa., will take sub-bids.

Church, Bath, Pa., $20,000. Architect, C. W. Grossart, 601 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, 1 story and basement, 36x60 feet, hardwood floors, hot air heat, electric light. Plans in progress.

Factory, Kutztown, Pa. Engineers, Bascom & Sieger, Allentown, Pa. Owner, name withheld. Brick, steel, 1 story, 100x100 feet, concrete foundations, slag roof, electric light. Work contemplated.

School (Herbst School) (alt.), Allentown, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, School Board of Allentown, Geo. Wenner, secretary, Allentown, Pa. Interior alterations, maple floors, electric wiring, new plumbing, school equipment. Plans in progress.

Theatre, Seventeenth and Washington streets, Easton, Pa. Architect, J. M. Snyder, Trust Building, Easton, Pa. Owner, Twin City Theatre Co., care of Clayton D. Buss, Easton, Pa. Brick, 1 and 2 stories, 50x112 feet, concrete foundations, slag roof, concrete floors, vapor heat, electric light, hollow metal skylights, roof ventilators. Plans in progress.

Bungalow, Easton, Pa. Architect, J. M. Snyder, Trust Building, Easton, Pa. Owner, Mrs. Bella Miller, 145 Third street, Easton, Pa. Stucco, 1½ stories, 23x33 feet, concrete foundations, slate roof, hardwood floors, electric light. Owner taking general bids.

South Office Building, Capitol Park, Harrisburg, Pa. Architect, Arnold W. Brunner, 101 Park avenue, New York City. Owners, Department of Public Grounds and Buildings, G. A. Shreiner, superintendent, Harrisburg, Pa. Granite and steel, 6 stories, 287x158 feet, excavations, foundations and superstructure. Owners taking bids due June 15th. John R. Wiggins, Otis Building, Philadelphia, is figuring.

School (add.), West Easton, Pa., $12,000. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, West Easton School District, W. H. Bill, secretary, Easton, Pa. Brick, 2 stories, 34x40 feet, slag roof, maple floors, electric light, school equipment. Owner ready for bids.

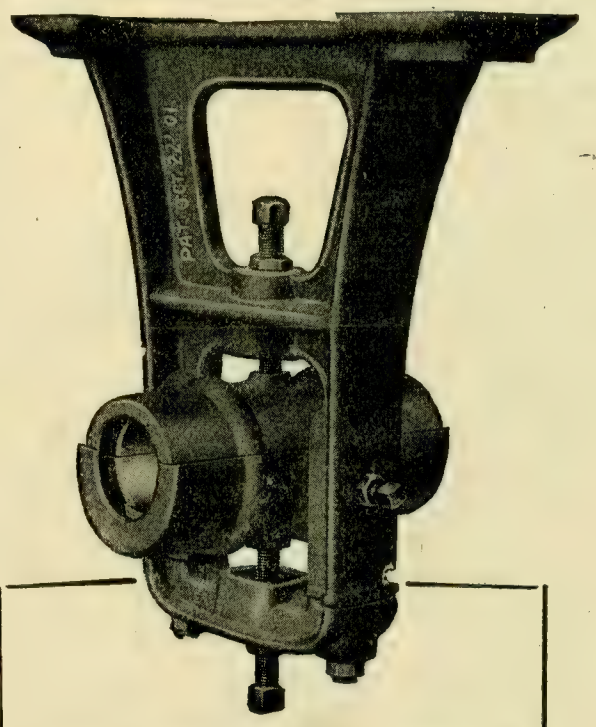
School, Kingston, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, St. Hedwig's Roman Catholic Church, Rev. Grycka, Kingston, Pa. Brick, 2 stories and basement, 70x115 feet, concrete foundations, slag roof, pine floors, vacuum heat, electric light, hollow tile, tile and marble work, hollow metal skylights, roof ventilators. Architect taking bids due as soon as possible.

Church (alts.), Simpson, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. Basil's Russian Church, on premises, care of architect. Frame, 1 story add., 40x50 feet, asbestos shingle roof, pine floors, electric light. Owner taking bids.

Church, 213 West Green street, Hazleton, Pa., $70,000. Architects, Morris & McHale,

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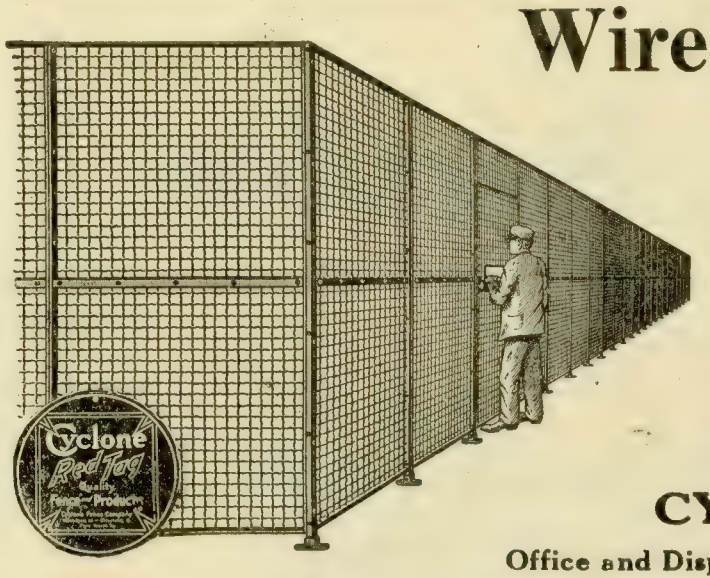
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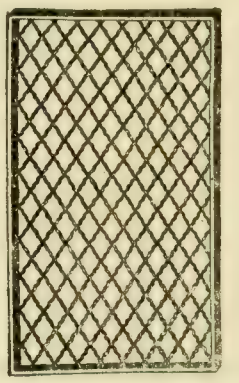


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Burr Building, Scranton, Pa. Owner, Church of Transfiguration, Rev. D. W. Riviatkowski, Hazleton, Pa. Brick and hollow tile, 1 story, 60x112 feet, slate roof, yellow pine floors, vacuum heat, electric light, tile and marble work, rolled steel skylights, roof ventilators. Architect taking bids due as soon as possible.

Store (alt. and add.), Broad street, Hazleton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, 3 stories, slag roof, tile floors, electric light, plate glass, interior alterations. Preliminary plans in progress.

Convent (rebuilding and add.), South Washington street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. ($150,000). Owners, Sisters of Mercy, care of architect. Brick, steel, concrete, fireproof, 3 stories, various sizes, tile floors, electric light, new plumbing, hollow metal skylights, roof ventilators. Plans in progress.

Church, Laurel street, Coaldale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. John's Roman Catholic Church, care of Rev. P. Guailias, Lansford, Pa. Brick, stone, hollow tile and stucco, 1 story, asbestos shingle roof, pine floors, electric light, tile work, roof ventilators, rolled steel skylights. Owners taking general bids due June 6th.

School, Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, School Board of Plains, Plains, Pa. Frame, 1 story, 45x48 feet, slag roof, pine floors, steam heat, electric light. Plans in progress.

Bath House, Harrisburg, Pa., $35,000. Architect, Warren H. Manning, Boston, Mass. Owner, City of Harrisburg, care of Commissioners of Harrisburg. Concrete, 1 story, 100x32 feet, electric light, cement floors. Plans in progress.

Church (add.) and Manse, Drexel Hill, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Drexel Hill Presbyterian Church, care of Frank Reeves, Building Committee, Drexel Hill, Pa. Stone and half timber, 2½ stories, 28x50 feet, church, stone, first story add. 60x100 feet, slate roof, hardwood floors, stone foundations, electric lighting. New plans in progress. Architects will be ready for bids in a week.

Residence, Market street, Bethlehem, Pa. Architect, C. M. Lovelace, Bethlehem Trust Building, Bethlehem, Pa. Owner, Dr. R. M. Walls, 62 East Broad street, Bethlehem, Pa. Stone, 2 stories, 65x134 feet, stone foundations, slate roof, hardwood floors, steam heat, electric light, tile work. Sketches in progress.

Residence, Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Samuel Sakofsky, 923 North Webster street, Scranton, Pa. Frame and stucco, 2½ stories, 30x30 feet, concrete foundations, asbestos shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Residence (alts.) to Apartments, Bryn Mawr, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, George Vaux, Jr., Bryn Mawr, Pa. Carpentry, plastering, new partitions, electric lighting, steam heating. Owner is taking subbids.

Residence, Olyphant, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, George Spitts, Olyphant, Pa. Frame and stucco, 2½ stories, 28x32 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Library, Pottsville, Pa. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, Carnegie Free Library, City of Pottsville, Pottsville, Pa. Brick, 1½ stories. Plans in progress. Too early for details.

Court House, Scranton, Pa., $200,000. Architect, not yet selected. Owner, City of Scranton, Pa. Work contemplated.

Warehouse, Scranton, Pa. Architects, E. H. Davis and George Lewis, Union National Bank Building, Scranton, Pa. Owner, Mack Truck Co., Scranton, Pa. Brick, steel, fireproof, 95x200 feet, slag roof, concrete floors, electric light, rolled steel sash and skylights, roof ventilators. Plans in progress.

Mill, North Washington avenue, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, Long Handkerchief Co., 1012 North Washington avenue, Scranton, Pa. Brick, mill construction, 4 stories, 50x100 feet, slag roof. Preliminary plans in progress.

Ice Cream Plant (alts.), Cliff street, Scranton, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owner, Williams Ice Cream Co., on premises. General interior alterations, concrete and pine floors. Plans in progress.

Mill, Pittston, Pa. Architect, D. A. Morgan, Connell Building, Scranton, Pa. Owner, Morris Kanter, 222 Carroll street, Paterson, N. J. Mill construction and stucco, 1 story, 300x55 feet, concrete foundations, slag roof, pine floors, steam heat, electric light, rolled steel sash. Owner ready for bids next week.

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Synagogue, Providence road, Scranton, Pa. Architect, L. Reisman, Miller Building, Scranton, Pa. Owner, Ahavath Scholen, 1731 North Main street, Scranton, Pa. Stucco, 1 story and balcony, 80x39 feet, concrete foundations, shingle roof, concrete and yellow pine floors, electric light, metal lath, sheet metal work. Owner will take bids.

Pennsylvania Contracts Awarded

Theatre Building, Windber, Somerset County, Pa., $100,000. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Windber Theatre, Inc., Windber, Pa. Brick, 2 stories, 60x150 feet, slag roof, composition floors, stone foundations, steam heating, electric lighting, tile, marble and terrazzo work, ventilating system. Contract awarded to Windber Lumber Co., Ltd., Windber, Pa.

Foundry Building, Fernwood, Pa. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, Eastern Foundry & Machinery Co., Ambler, Pa. Brick and steel, 1 story, 60x120 feet, slag roof, cement floors, stone foundations, electric lighting, iron work. Contract awarded to Charles R. Davis & Son, 1500 Ellsworth street, Philadelphia.

School, Newport Township, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, School Board of Newport Township, Peter Sarpolins, Alden, Pa. Brick, 2 stories, 100x110 feet, stone foundations, slag roof, pine floors, steam heat, electric light, roof ventilators. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

Factory, S. Washington st., Scranton, Pa. Architects, Ed. W. Davis & G. M. Lewis, Union National Bank Building, Scranton, Pa. Owner, Michael Bosak Co., 432 Lackawanna street, Scranton, Pa. Reinforced concrete, fireproof, 3 stories, 53x165 feet, slate roof, concrete floors, electric light, metal lath, elevators, roof ventilators, rolled steel sash, fire doors (plumbing, heating, electric reserved). Contract awarded to Beilman & Son, Scranton, Pa.

School, Sunbury, Pa., $90,000. Architect, Ralph Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Sunbury School Board, Mr. Strouh, Sunbury, Pa. Brick, fireproof, 2 stories, 105x65 feet, stone foundations, slag roof, maple floors, electric light, tile and marble work, hollow metal skylights, roof ventilators, metal weather strips. Contract awarded to Herman Milander, Wilkes-Barre, Pa.

Dairy Barn, Retreat, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, Central Poor District, James Reilly, secretary, Wilkes-Barre, Pa. Tile, 1½ stories, 210x120 feet, concrete foundations, asbestos roof, concrete floors, hot water heat, electric light, stable equipment. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

House, Riverside Drive, Wilkes-Barre, Pa. Architect, F. H. Atherton, Coal Exchange Building, Wilkes-Barre. Owner, J. C. Haddock, care of architect. Brick, stucco, shingle, 2 stories, 31x45 feet, stone foundations, slag roof, hardwood floors, hot air heat, electric light, tile work. Contract awarded to Shepherd Const. Co., Wilkes-Barre, Pa.

Chapel (alts.), Valley Forge, Pa. Architects, Zantzinger, Borie & Medary. Owner, Washington Memorial Chapel, Valley Forge, Pa. Contract for Bay B (Rhode Island) awarded to Horace H. Burrell, 206 South Quince street, Philadelphia.

Hotel (alts.) to Department Store, Shamokin, Pa. Architects, Ritcher-Lee Co., 32 South Seventeenth street, Philadelphia. Owners, Progressive Commercial Corp., 3032 Richmond street, Philadelphia. Brick, 3 stories, steam heat, electric light, tile and marble work, flush bulks, elevators, maple floors. Contract awarded to L. Cashmareck, 1769 Tioga street, Shamokin, Pa.

Club Buildings, Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Aberfoyle Mfg. Co., Chester, Pa. Brick and stucco, 1½ stories, 91x200 feet and 100x42 feet, asphalt shingle roof, marbleloid and composition floors, stone foundations, waterproofing, iron work (heating, electric wrk and plumbing reserved). Contract awarded to John A. Hanna, Park Place, Chester, Pa.

Warehouse, North Bushkill Drive, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, Lehigh Valley Supply Co., Allentown, Pa. 1 story, 33x66 feet, slag roof, concrete floors, electric light. Contract awarded to Bechtel & Bechtel, Easton, Pa.

Residence (alts.) to Apartment, 6 North Third street, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, D. W. Reeder, 61 North Third street, Easton, Pa. General alterations (interior), plumbing and heating. Contract awarded to Bechtel & Bechtel, Easton, Pa.

Residence (add.), Spring Garden, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, Dr. E. M. Green, on premises. Brick, 2½ stories, 14x14 feet, slate roof, hot water heat, new plumbing and heating. Contract awarded to Bechtel & Bechtel, Easton, Pa.

Branch Office Building, Marcus Hook, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Cambria Trust Co., Chester, Pa. Brick and terra cotta, 2 stories, 30x50 feet, slag roof, pine and terrazzo floors, metal lath, stone foundations, hollow metal sash, iron work (plumbing, heating and electric work reserved). Contract awarded to Wm. Provost, Jr., Chester, Pa.

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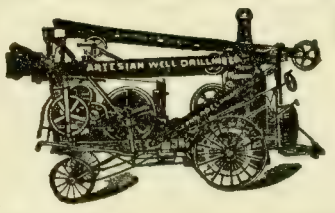
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New Jersey Construction News

Police Station (alt. and add.), Chancery street, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, City of Trenton, care of George La Bar, City Commissioner, City Hall, Trenton, N. J. Steel, concrete, fireproof, 3 stories and basement, 60x90 feet, concrete roof and floors, vacuum steam heat, electric light, rolled steel sash and skylights, fire doors, steel cells, iron stairs, ornamental iron work, roof ventilators, metal window guards (plumbing, heating and jail equipment reserved). Architect has received bids.

School (alt.), Wrightstown, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owner, School Board of New Hanover, Ed. L. Davis, president, Wrightstown, N. J. General interior alterations. Board will take bids this week.

Store, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Mrs. Wallace, care of architect. Brick, 2 stories, 110x16 feet, slag roof, electric lighting. Architect has received bids.

Garage and Sun Parlor, Ivy Court, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, Henry A. Ludeke, on premises. Brick and concrete, 2 stories, 18x21 feet, shingle roof, concrete floors, electric light. Architect ready for bids.

School, Corkstown, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owner, School Board of New Hanover, Edw. L. Davis, president, Wrightstown, N. J. Frame, 1 story, 75x40 feet, shingle roof, maple floors, electric lighting. Board will be ready for bids this week.

School (alt. and add.), Lakewood, N. J. Architects, Fowler and Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Newman School, care of architect, Lakewood, N. J. Brick, concrete and stucco, 2 stories, 60x25 feet, concrete foundations, shingle roof, beech floors, hot water heat, electric light, marble work, roof ventilators. Architects taking bids due June 7th. Lakewood Cont. & Bldg. Co., Newman & Newman, both of Lakewood, N. J.; Charles Y. Barlow and Jackson Bros., Trenton, N. J., are figuring.

Community Building and Parish Hall, Sayreville, N. J. Architects, Berry and Cummiskey, Real Estate Trust Building, Philadelphia. Owners, Roman Catholic Church of Our Lady of Victory, care of Rev. William M. Gilfillan, Sayreville, N. J. Frame and stucco, 1 and 2 stories, 57x129 feet, asbestos and slate roof, maple and pine floors, concrete and brick foundations, electric lighting. Owners will build and are taking sub-bids.

Church, Riverton, N. J. Architect, C. Henry Wilson, 1928 South College avenue, Philadelphia. Owner, St. Paul's Baptist Church, care of Rev. M. A. Foster, Riverton, N. J. Brick, 38x60 feet, asbestos shingle roof, maple floors, steam heating, electric lighting. Owners will be ready for bids in three weeks.

Residence (alts.), Ventnor, N. J. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Willard E. Cook, Ventnor, N. J. Interior alterations and new front entrance. Plans in progress.

Laundry, Girls' Home, Trenton, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owner, State of New Jersey, care of architect. Brick, 1 story, 81x43 feet, concrete foundations, slate roof, cement floors, steam heat, electric light, roof ventilators, wood tresses. Low bidder, C. Y. Barlow, Trenton, N. J.

Nurses' Home and Dining Hall, Sixth and Stevens streets, Camden, N. J. Architects, Morris and Erskine, 1716 Cherry street, Philadelphia. Owner, Cooper Hospital, Camden, N. J. Reinforced concrete and brick, 3 stories, 45x51 feet, and 1 story, 40x50 feet, slag and tile roof, reinforced concrete floors (electric light, plumbing and heating reserved), tile and marble work. H. E. Grau Co., 1707 Sansom street; R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia, and J. W. Draper Co., Camden, N. J., are figuring. Bids due June 15th.

Residence, Wenonah, N. J. Architects, Morris and Erskine, 1716 Cherry street, Philadelphia. Owner, A. H. Everhart, Wenonah, N. J. Frame, 2½ stories, 30x30 feet, shingle roof, pine floors, warm air heating, electric lighting, tile work. Owner is ready for bids.

Store House, Vineland, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owner, Feeble Minded Home for Women, care of Dr. Madelene Howell, Vineland, N. J. Brick, 1 story and basement, 81x49 feet, slate roof, concrete foundations, electric lighting, cold storage plant, reinforced concrete floors. Lowest bid submitted by Graham & Wells, 3649 Filbert street, Philadelphia, Pa., $33,931.

Septic Tank, Vineland, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owner, State of New Jersey, care of architect. Reinforced concrete, 12 feet high, 45x52 feet, new sewerage, cast iron and terra cotta work. Low bidder, George L. Robinson, 37 East Twenty-eighth street, New York.

Workshop, Bordentown, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owner, Industrial School for Colored Youths, Bordentown, N. J. Concrete, hollow tile and stucco, 1 story, 110x42 feet, stone foundations, galvanized iron roof, pine floors, hollow metal sash. Low bidders, Fenimore & Firth, Bordentown, N. J.

Bungalow, Atlantic City, N. J. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Fred G. Nixon-Nirdlinger, 320 South Forty-sixth street, Philadelphia. Frame and stucco, 1½ stories and basement, 40x65 feet, asbestos shingle roof, oak and pine floors, vapor heating, electric lighting, tile and marble work. Architects taking bids due June 5th. Wilbert Beaumont, Hampton Bros., Newton W. Knauer, J. Mathis & Son and Andrew R. Scull, all of Atlantic City, N. J., are figuring.

Residence, Riverton, N. J. Architect, John F. Harbeson, 1535 Chestnut street, Philadelphia. Owner, Mrs. W. J. Curtis, Jr., Riverton, N. J. Hollow tile and stucco, 2½ stories, 32x90 feet, slate roof, oak floors, stone foundations, hot water heat, electric lighting. Revised plans in progress.

New Jersey Contracts Awarded

Church, Tenth and Ferry avenue, Camden, N. J., $19,000. Architect, C. Henry Wilson, 1928 South College avenue, Philadelphia. Owner, Tenth Street Baptist Church, care of Rev. John Saunder, 616 South Sixteenth street, Philadelphia. Brick and stone, 40x80 feet, slate roof, hardwood floors, stone foundations, steam heating, electric lighting, stained glass (church furniture and cabinet work separate bids), metal ceiling ventilators. Contract awarded to W. D. Peece, Glencove, N. J.

Court House (alt.), Belvidere, N. J., $20,000. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Board of Freehold-

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ers, Morris Faust, on premises. General interior alterations, steam heat, pine floors, painting. Contract awarded to Benj. Rymon, Phillipsburg, N. J.

Miscellaneous Construction News

School Building, No. 65, Baltimore, Md. Architect, E. H. Glidden, Baltimore, Md. Owner, Board of School Commissioners, Baltimore, Md. Granite, stone, brick and steel, 3 stories, 111x63 feet, slag roof, metal lath, pine and granolithic floors, roof ventilators, metal ceilings, waterproofing, dampproofing, iron work and stairs, fire escapes, electric lighting, steam heating. Lowest bid submitted, $399,000, by Standard Const. Co., 1713 Sansom street, Philadelphia.

Proposals

INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 7, 1920, for furnishing certain materials for the construction of the main hospital, transformer building, gas house, and an extension to the present boiler house for the United States Public Health Service Hospital at Sewell's Point (Norfolk), Va., including reinforcing metal, structural tile, gypsum blocks, miscellaneous iron work, sheet metal work, hollow steel doors, interior marble and slate, mill work, fly screens, linen chutes, hardware, plumbing, heating, electric work, etc., in accordance with drawings and specifications, copies of which may be obtained from the Medical Officer in Charge, U. S. Public Health Service, Custom House, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 7, 1920, for furnishing certain materials for the construction of the main hospital, transformer building, gas house, and an extension to the present boiler house, and certain approach work for the United States Public Health Service Hospital at Sewell's Point (Norfolk), Va., including materials for mortar, concrete, macadam, brick work, waterproofing, plastering, lumber, painting, etc., in accordance with drawings, specifications and bills of quantities attached thereto, copies of which may be obtained from the Medical Officer in Charge, U. S. Public Health Service, Custom House, Norfolk, Va., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 7, 1920, for furnishing the necessary labor and materials for the composition roofing, stucco work, and cork insulation required in the construction of the main hospital, transformer building, gas house, and an extension to the present boiler house for the United States Public Health Service Hospital at Sewell's Point (Norfolk), Va., in accordance with drawings and specifications, copies of which may be obtained from the Medical Officer in Charge, U. S. Public Health Service, Custom House, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 22, 1920, for furnishing materials for the construction of an extension to the Animal House for the Hygienic Laboratory, United States Public Health Service, Washington, D. C., including materials for concrete, reinforced concrete, brick, miscellaneous iron and steel work, composition roofing, sheet metal work, lumber, mill work, painting, glazing, hardware, plumbing, electric work, etc., in accordance with drawings, specifications and bills of quantities attached thereto, copies of which may be obtained at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed proposals will be opened in this office at 3 P. M., June 22, 1920, for furnishing the labor required in the construction complete, with materials that will be furnished by the Government, of an extension to the Animal House, for the Hygienic Laboratory, United States Public Health Service, at Washington, D. C. Drawings and specifications may be obtained at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

(Continued from Page 516.)

P. R. R. tracks are already on Main Street, Camden, just under the proposed Bridge, and P. & R. R. R. very close to the western end, with B. & O. connection and P. R. R. near enough to connect without serious difficulty of expense.

The plans for the suggested location are the result of careful study of the conditions, the limitations and the opportunities involved, with only consideration of the interests of all the people, and without regard to private interests of any kind.

The heighth of the Bridge and consequent length of approaches as suggested are intended to meet present requirements of the Federal authorities for navigation.

It cannot safely be assumed that an experimental structure built over forty years ago and of high merit can be used in its entirety as a guide for present-day construction.

This plan is intended for today and the future, and is intended to be intensely practical, yet containing only suggestions of proven merit.

(Continued from Page 515.)

ing codes, retaining only the salient features, reducing them to their simplest terms, and recording their actual mandatory requirements. These are as follows:

BOSTON

The tensional stresses in the steel are fixed at 16,000 lbs. per sq. in. The standard mixture for reinforced concrete is 1 of cement, 2 of sand, and 4 of broken stone.

Extreme fiber stress in slabs and other units, 500 lbs. per sq. in. In special cases, as in columns with vertical and hooped reinforcement, 600 lbs. per sq. in. in compression is permitted.

Plain concrete in mass, in compression, 350 lbs. Wall thickness for houses: Basement, 12 inches; first and second stories, 8 inches. The use of cinder concrete is permitted in floor slabs, roofs or filling.

CHICAGO

Allowable stresses: Mild steel in tension—18,000 lbs. per sq. in:; extreme fiber stress in concrete, 35 per cent. of the ultimate crushing strength; direct compression, 20 per cent. of the ultimate crushing strength.

Various mixtures of cement, sand and broken stone are prescribed as follows: (Best) 1:1:2; 1:1½:3; 1:2:4; 1:2½:5; 1:3:7.

Portland Cement, Sand or Gravel by carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

The crushing values of these respective mixtures are given as 2,900, 2,400, 2,000, 1,750, and 1,500 lbs. per sq. in.

Wall thicknesses are the same as for brick. Cinders: Clean, screened from ashes or other matter, are permitted except in bearing walls, columns or piers.

LOS ANGELES

Allowable steel stress—16,000 lbs. per sq. in.

Allowable stresses in concrete as follows:

Mixture: 1:2½:3½ crushed rock, extreme fiber stress, 650 lbs.; hooped col., 800 lbs.

Mixture: 1:3:4½ screened gravel, extreme fiber stress, 520 lbs.; dir. com., 350 lbs.

Mixture: 1:7 bank or river gravel, mass concrete; without reinforcement, dir. com., 250 lbs.

Walls—Plain concrete, same thickness as required for brick walls.

Block concrete, same thickness as brick walls.

Reinforced concrete, filler or curtain walls not less than 8 inches thick.

Los Angeles has the following provision for inspection:

The inspector must qualify. He must see that all work and materials comply with the requirements of the ordinance—or stop the work—upon penalty of a fine of not more than $500, or imprisonment for not more than six months, or both.

NEW YORK

Allowable steel stress, high carbon steel, or cold drawn wire or fabric, 20,000 lbs.; mild steel, 16,000 lbs. per sq. in.

Mixture, for reinforced concrete—1:2:4 or better, with a crushing resistance of not less than 2,000 lbs. per sq. in. at the age of 28 days.

The aggregate to be screened, crushed stone, or gravel.

Extreme fiber stress in concrete, 650 lbs.

Direct compression, 500 lbs. per sq. in. on the concrete, plus 9,000 lbs. per sq. in. on the vertical steel reinforcement.

Mixture for mass or plain concrete, 1:2½:5.

Aggregate to be granite, trap rock, or gravel—thoroughly cleaned.

Walls: Foundation walls for residences not less than 12 inches of reinforced concrete, 8-inch walls, 20 feet high, are allowed above the basement; 30-foot walls are permitted, if the first 10 feet in height is 10 inches thick.

Cinder concrete is permitted in floor slabs, in reinforced partitions 4 inches thick, and in plain partitions 5 inches thick.

PHILADELPHIA

Value of steel, 16,000 lbs. per sq. in.

Extreme fiber stress in concrete, 650 lbs.

Direct compression, 500 lbs; allowed compression on plain concrete in walls or large piers, 250 lbs. per sq. in.

Mixture: 1:2:4, to develop a crushing strength of 2,000 lbs. per sq. in. in 28 days.

Aggregate—Stone, gravel, or slag.

Cinder concrete permitted for slabs and minor partitions, mixture, 1:2:5, and should develop a crushing strength of 800 lbs. in 28 days.

For cinder concrete the allowed extreme fiber stress is 300 lbs.

Reinforced concrete will be approved for all types of building construction, provided the design conforms to the requirements of good engineering practice, and the working stresses do not exceed those established in the code.

Walls of reinforced concrete may be 66 per cent. of the required thickness for brick walls; the concrete to be reinforced with approximately 1-5 of 1 per cent. of the cross section.

Concrete blocks 1:2:3 mixture of sand and gravel may be used in house construction, in walls of the same thickness as brick walls.

A system of rigid tests is established.

Only high grade portland cements are considered in any of the building codes to which reference is made.

As an illustration: a good reinforced concrete house, having horizontal dimensions of 30 feet by 40 feet, and an average height above the basement of 20 feet, would weigh, including outside walls, floors, partitions and roof, approximately 10 tons—and if all the floors were loaded to their full carrying capacity of 40 lbs. per sq. ft., it would add about 50 tons more. The weight of the whole building, above the basement, together with its live load, could be safely supported upon one well designed concrete column 23 inches in diameter. In the vertical supporting members in a typical concrete house there is material sufficient to make 25 such columns.

Now this is extravagant designing—an unnecessary waste of valuable material. The designers are not encouraged to apply their inventive genius, or even the best of their training and experience, but in many cases are restrained and handicapped by the requirements of existing building codes—codes that are influenced by other codes, which in turn are influenced by older and different methods of building. There is no logical reason why concrete construction should be measured in multiples of 4, 8 or 12 inches, just because brick and stone are figured that way.

To begin with, portland cement concrete is a comparatively new material, and new uses for it are being discovered every day. Until very recently the concrete house was designed on the same lines and with the same details as a brick or stone house. And it was but natural that existing or incongruous building regulations should be applied to it.

But we are progressing. The engineers have led the way, showing us how to build with concrete scientifically and safely. The factor of safety can be very greatly reduced when ignorance, dishonesty, and carelessness are noticeably reduced, and better controlled.

The men who are really responsible for our biulding codes have worked to get away from archaic methods, have had to oppose ignorance, perversity, and the entrenched interests. They have had to arouse and mould public opinion, and receive its sanction, before they could establish and maintain necessary reforms, or enact building codes.

With a slight improvement in the intelligence and reliability of the average man, and a better and more universal understanding of the proper treatment and behavior of concrete—in all places and under all conditions—great economies both in the material and manipulation can be effected, and satisfactory results obtained.

Our building codes are primarily written and enforced for the dual purpose of protecting human life and the prevention of fire. They must occasionally be revised, so as to comprehend new materials, and new methods.

The concrete house of various types of construction will gradually and shortly come to be considered on its own intrinsic merits, and building codes will contain provisions that will be specially applicable to such houses.

The concrete house, with its unlimited opportunities for style, finish and decoration, has a value and a charm all its own. The designer should bear in mind that he is expressing himself in terms of concrete, and also that it is a medium worthy of his best thought and his noblest effort.

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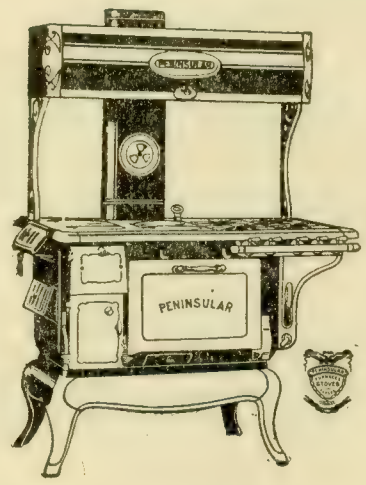
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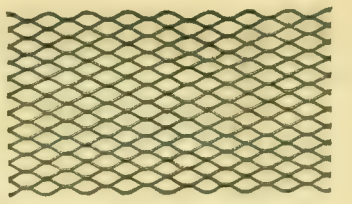
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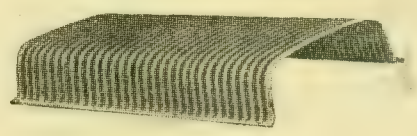
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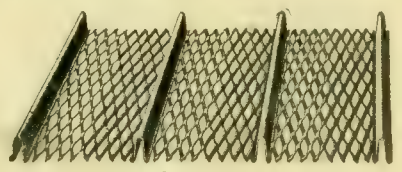
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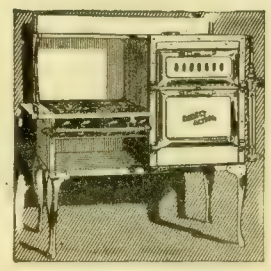
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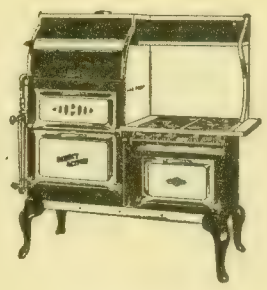
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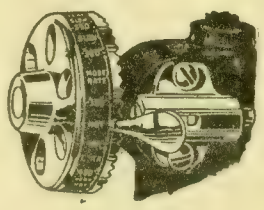
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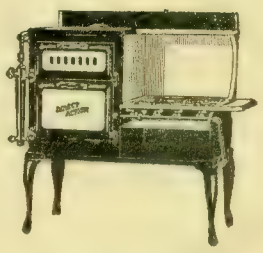


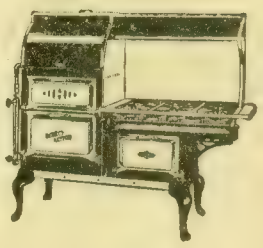
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXV, No 23
June 9, 1920

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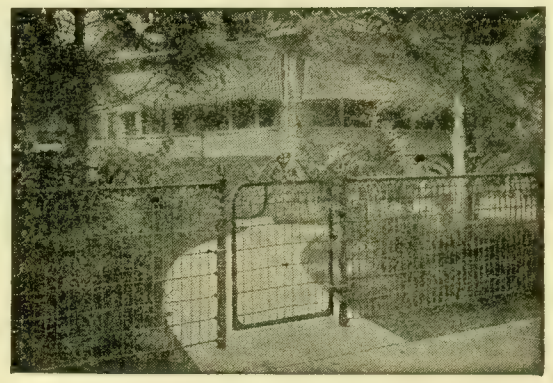
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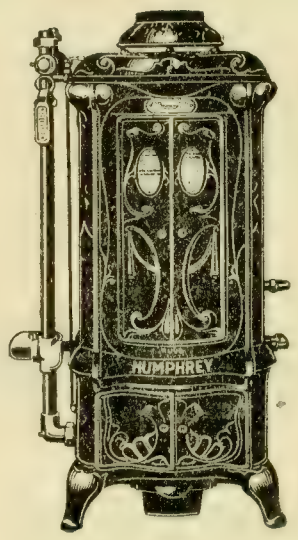
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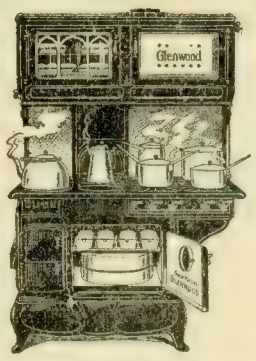
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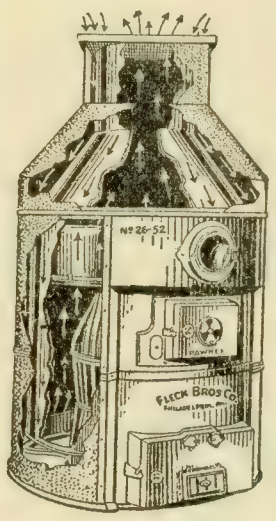


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As The Editor Sees It

AT the recent convention of the Chamber of Commerce of the United States, held in Atlantic City, Homer Ferguson, a president of the Chamber, said that one of the great troubles with employers is that they are confining most of their efforts in meeting the many pressing problems of today to talking about them.

We are of the opinion that this complaint is not confined to employers, but has spread through the nation and attacked public official employer and employee alike. We have been fed up, during the past year, on reports from investigating committees and are still hungry for real results and solution of our many problems.

Not least among these is the still unmet housing shortage. Chicago, however, is an example of a city which is actually doing instead of talking. In fact, the first 175 houses of the 10,000 planned by the Chicago Housing Association are nearing completion in South Chicago and were visited by several hundred persons. Three thousand applications are on file for these 175 houses. Applicants must be American citizens and preference will be given those who have children and are poorly housed at present.

The association was formed to make it possible for small wage earners to own their homes. The buyers will pay $33 or $35 a month, of which only $9 or $10 will be rent, the balance being applied on the purchase of the homes over a period of fifteen years. The cost will be about $4500 for corner houses, $4250 for double English style and $4000 for the others. The first houses will be completed about June 1st, the buyers to pay one-tenth of the price down and the rest in installments. The 175 houses will be dedicated July 4th. Mayor Thompson and Governor Lowden are expected to take part in appropriate ceremonies.

Each house has three bedrooms, living room, combination dining room and kitchen, pantry, bathroom, closets and cement basement containing laundry tubs.

There has been pledged $750,000 for the housing by a group of financiers who have thus put Chicago in the lead in the attempts to solve the housing problem.

* * *

THE town of Holyoke, Mass., has also solved the housing shortage problem in a very effective manner, and the Holyoke National Bank has shown one way in which some houses can be built. This bank makes a construction loan to any approved builder for any family in Holyoke and the neighboring towns which has had $1000 on deposit in its savings department for the preceding six months. After the house is completed, the bank will make an effort to obtain for the owner a savings bank loan for 50 per cent. of the actual cost of house and lot. The difference between the savings bank loan and the cost of the property, less the amount of the owner's money used, the bank carries at 6 per cent. interest. While building, $1000 of the depositor's money is taken to buy the lot and start the house. The bank provides $4000 to complete the house. When completed, the loan will stand at $2500 in the savings bank loan, $1000 of depositor's money, and $1500 to be paid the Holyoke National Bank at 6 per cent. interest in weekly or monthly payments. The bank is applying half a million dollars for the purpose. Within a few weeks, in March of this year, 31 homes were being built under this plan, every house lot being large enough for a garden. Thus this Holyoke bank is using a portion of its funds for the necessities of its own community, instead of using them for "high-grade securities," financing Wall Street, and inflating commercial enterprises.

The home-owning idea should not be made into merely a passing fad; it should be a permanent national policy.

The trade paper is not only gaining in the esteem of the world, but it has ever led the work for purity in advertising and honesty in journalism.

DRAWING MATERIALS

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BLUE PRINTS

STYLES FOR STUCCO MODERN ENGLISH COUNTRY HOUSES

BY DONALD O. DUNN

In these days of quantity production and industrial achievement, it may seem strange to speak of art as vital. Specialization is now the watchword in nearly all lines of endeavor. Even in architecture the structural and mechanical ends of the work have become professions in themselves, with the result that the structural engineer and the ventilating expert are all too prone to look on the architectural designer as a mere "milliner in stone," whose sole function is to please the public by dressing up the steel work with facades and interiors that conform to the style that is in favor at the moment.

Nevertheless architecture is the most vital of the arts with which we, as a people, have to deal; and the work of the men who practice it is a large factor in shaping the public conception of artistic matters generally. Yet a great many people have very limited ideas of architectural styles; particularly as to when various materials can be used without violation of the aesthetic principles of design. Perhaps the best example of this is the adaptation of various styles to stucco.

Stucco is plaster work—either exterior or interior—and may be applied on brick, tile, or metal lath. This seems simple enough, yet the layman will almost invariably limit its associations of this type of construction to bungalows or the commonplace type of small houses that has characterized some of our real estate developments.

To those who have traveled abroad, it will suggest the palazzi and garden architecture of Italy and the warmer countries. The Italians have always been sculptors and painters rather than architects. Even the structural grandeurs of Imperial Rome were accomplished largely by Greek artisans under Roman direction and patronage.

The flowering of the Renaissance in Italy saw a group of painters and sculptors impressing their personalities on the times through the medium of architecture.

Michael Angelo, Bernini, Sansovino, Bramante and a host of followers covered their buildings with a wealth of almost painted detail. The interest of economy coupled with a natural instinct for modeling resulted in an eager adoption of stucco, and much of the best known Italian work will be found upon examination to be of stucco. For this reason and the fact that the very name is an Italian word, many people associate stucco work almost entirely with Italy. Few indeed will associate it with colder climates, notably England, yet Edwin Lutyens, the prominent British architect, whose work has had so large an influence on the best contemporary in this country, has not hesitated to use it freely.

This is the more noteworthy since Mr. Lutyens was recognized early in his career as a master in the use of materials. He was constantly trying new combinations but always leaned strongly toward those which offered the most plastic medium for the expression of his ideas. Brick, ashlar, chalk, black flint and stucco all served their turn according to the local conditions and to the peculiar requirements of the problem.

Perhaps the most charming example of his earlier work is "Goddards," built for Sir Frederick Mirrillees as a Home of Rest for poor women. It stands near Leith Hill in Surrey. A more delightful variety, both in plan and in the varied use and treatment of materials would be hard to imagine. The contrast of its chimneys and brick, mullioned windows with the stucco walls is the keynote to its charm.

The house itself is in spirit of the best Surrey tradition of building, but with greater freedom in the handling of the materials, and a natural rather than a studied picturesqueness. Narrowly it might be called Tudor, but Lutyens has never allowed himself to be bound by stylistic considerations wherein he differs from the majority of his American contemporaries.

Our national state of mind, architecturally, is the result of a perfectly natural sequence of events.

Our colonial ancestors brought with them to this country the building traditions of their day.

Fundamentally they were English and familiar with the Georgian work of their period. Naturally difficulty was experienced in obtaining building materials for this style of architecture in the colonies. Only the more well-to-do could have bricks and cut stone brought from England, and this construction of their buildings soon gave place to wood. Fortunately, skilled ships' carpenters were at hand and the delicate wood mouldings that characterized the best colonial houses were the result of their craftsmanship.

But the Revolution and the War of 1812, broke down many ties with the mother country. Gradually the skilled artisans died off and were replaced by men of a rough and ready type, unskilled in the niceties of European craftsmanship.

The British blockade had forced the development of home industries and the fostering of these enterprises became a national policy after the war. Thus by 1830, our isolation from European influence became more complete, and little architecture of merit was produced after that date.

The best efforts of our people were devoted to pushing the western frontier across the continent. Our resulting prosperity, unguided by an architectural tradition, resulted in the so-called "Queene Anne" monstrosities of the eighties. The workmen were no longer skilled in the old world sense. Furthermore, their imaginations were not guided by the presence of great buildings of the past. Popular taste could not appreciate the refinement of our colonial heritage. Works of magnitude were undertaken by mere carpenter foremen and the invention of the jig saw coupled with the cheapness of lumber left an indifferent public at the mercy of these men.

Following all this came our gradual reintroduction to the great masterpieces of Europe. Increasing prosperity permitted more European travel with resulting demands for a higher grade of work at home.

Our students commenced to study abroad. After the provincialism of their native land, the beauties of Paris and Rome must have been overwhelming. They returned to a country that must have seemed to them inexpressively crude —artistically, at least.

Far from the shrines of European art, they strove for the most part for the technical perfection of mere architectural plagiarism. Many of our architects are even now content in merely aping the great monuments of Europe. The resulting tendency has been, of course, towards work that has a classical correctness, but in its timidity lacks any real vitality.

One of the strongest chains that binds the architect to the past is the habit of thought of his public. People who have been accustomed to seeing cornices on buildings cannot be reconciled in a night to a building with no more crowning member than an upended domino. So that few of our architects have been hardy enough to venture far from classical precedent.

Not so with contemporary Old World designers who have grown up in the very

(Continued on Page 551.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Peanut Products Factory, Seventh street, North of Glenwood avenue, Philadelphia. Architects, Peuckert and Wunder, 310 Chestnut street, Philadelphia. Owners, Lummis & Co., 148 North Delaware avenue, Philadelphia. Site purchased. Work contemplated. Preliminary plans in progress.

Building (alts. and add.), Northwest Corner Broad and Vine streets, Philadelphia. Architect, W. Frisbey Smith, Broad and Arch streets, Philadelphia. Owner, H. Pressman, 300-02 North Broad street, Philadelphia. Steel and brick work, tile floors, metal ceilings, cement work, carpentry, painting, large plate glass, hardware. Plans in progress. Will be ready for bids in a week.

Roof and Foundation Work, Broad and Spruce streets, Philadelphia. Architect, Cass Gilbert, 244 Madison avenue, New York City. Owner, Atlantic Refining Co., 3144 Passyunk avenue , Philadelphia. Temporary roof (wood) and foundations. Architect taking bids, due June 15th. Irwin & Leighton, 126 North Twelfth street; Metzger & Fischer, Otis Building, Philadelphia, are figuring.

Theatre, 4022 Girard avenue, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Philip Green, 4050 Green street, Philadelphia. Brick and terra cotta, 1 story, 151x40 feet, slag roof, cement floor, roof ventilators, steam heating, electric lighting, fire doors. Plans completed. Owner is ready for sub-bids.

School (alts.), Musgrave and Hortter streets, Philadelphia. Architect, private plans. Owner, Board of Education, care of J. D. Cassell, Superintendent of Buildings, Nineteenth above Chestnut street, Philadelphia. Cement work, waterproofing, iron work, metal lath, brick work, plastering, carpentry, mill work, painting, glazing. Lowest bidder: Kober Const. Co., Middle City Building, $3,700.

Store Building (alts. and add.), 1226 Chestnut street, Philadelphia. Architect, George A. Schoenwald, Grand Central Terminal, New York City. Owner, J. & T. Cousins Co., on premises. Carpentry, mill work, metal ceiling, electric elevator, electric work, bronze work, terra cotta, plastering, marble and tile work, roof repairs, fire doors, iron work. Architect taking bids due June 11th. F. B. Davis & Son, 240 North Sixteenth street; Lam Building Co., 1001 Wood street, and Robert E. Lamb Co., 843 North Nineteenth street; F. E. Wallace, 1220 Chancellor street, and A. P. Fraim, 319 Market street, Philadelphia, are figuring.

Schools (2), Marshall and Dickinson and Seventh and Dickinson streets (Baugh and Close Schools), Philadelphia. Architect, private plans. Owners, Board of Education, care of J. D. Cassell, Superintendent of Buildings, Nineteenth above Chestnut streets, Philadelphia. Brick work, cement work, slate work, waterproofing, iron work, roof repairs, metal lath, painting, glazing, carpentry, mill work. Lowest bid submitted by George Dobbin, Forty-second and Chester avenue, $18,890.

Building (alts. and add.), 6620-22 Woodland avenue, Philadelphia. Architect, H. M. Pedrick, Lansdowne, Pa. Owner, Pasqualla Lacobucci, on premises. Brick and steel, 1 story, 44x26 feet, slag roof, pine floors, stone foundations, heating extensions, electric lighting, tile work. Architect has received bids.

Store (alts.), 621 Market street, Philadelphia. Architect, private plans. Owners, Bloch Bros., 327 Market street, Philadelphia. Brick work, marble work, painting, metal lath, plastering, new bulks, hardware. Owners have received bids.

Residences (alts. and add.), Pelham Road, Germantown, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owner, David C. Macneill, Bourse Building, Philadelphia. General alterations and additions. Plans in progress.

Office Building, Fifteenth street, North of Locust street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, R. J. Zeltzer, 400 Chestnut street, Philadelphia. Brick, 3 stories, 48x58 feet, slag roof, maple floors, stone foundations, steam heating, electric lighting, tile work, fire doors and tower, metal bulks. Plans completed. Owner ready for bids.

Residence (alts.), Germantown, Philadelphia. Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Hot air heating, electric lighting, new partitions, hardwood and composition floors. Ready for bids in a few days.

Residence, Chestnut Hill, Pa. Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Brick, 2½ stories, 40x50 feet, slate roof, hardwood floors, electric lighting. Plans in progress.

Dye House (alts.), Emerald and York streets, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Firth & Foster, on premises. General alterations and additions. Plans completed. Architect will be ready for bids in a few days.

Residences (5), **Garages** (2), Broad and Belfield avenue, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, B. Bornstein, 712 North Franklin street, Philadelphia. Stone, 2½ stories, 20x40 feet, garages, 1 story, 20x22 feet, slate and slag roof, hardwood floors, cement work, stone foundations, hot water heat, electric lighting, tile and marble work. Plans completed. Owner ready for sub-bids.

Cigar Factory, Third and Brown streets, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owner, El Producto Co., on premises. General interior alterations, new partitions, office fixtures, etc. Plans about completed. Will be ready for bids in a week.

Theatre (alts.), Germantown and Lehigh avenues, Philadelphia. Architect, Willis A. Hail, 524 Walnut street, Philadelphia. Owner, Jacob Hess, on premises. Carpentry, mill work, brick work, painting, electric lighting, plumbing, new organ, plastering, metal wainscoting, plumbing, stone foundations. Architect taking bids. F. A. Havens Co., 845 North Nineteenth street; H. H. Wehmeyer, 509 West Cumberland street, and Anton Tilli, 926 West Lehigh avenue, are figuring.

Moving Picture Theatre, Fairmount avenue, near Forty-fourth street, Philadelphia. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owners, Philadelphia Investment Amusement Corp., 2042 South street, Philadelphia. Brick, 1 story, 40x160 feet, slag roof, steam heat, electric lighting, fire doors, stone foundations, cement floor, iron work, waterproofing. Architects taking bids due June 15th. Tourison & Tourison, 1011 Chestnut street; Kober Cont. Co., 34 South Seventeenth street; Penn Const. Co., Pennsylvania Building; C. Nelson Rocholl, 217 Northeast Boulevard; J. M. Yardley, 1716 Sansom street; George H. Evans, 45 North Thirteenth street, and J. F. Trent, 2031 Master street, are figuring.

Market House (alts.), Nineteenth and Market streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Bahls Co., on premises. General renovation, tile work, marble work, steam heating, painting, glazing, cork insulation, plumbing,

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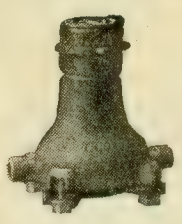


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School (alts.) (Alex. Wilson School), Forty-sixth and Woodland avenue, Philadelphia. Architect, private plans. Owners, Board of Education, care of J. D. Cassell, Superintendent of Buildings, Nineteenth above Chestnut streets, Philadelphia. Brick, 1 story, 12x15 feet, 12x15 feet, cement work, iron work, slate roof, brick work, hollow tile, waterproofing, ornamental iron work, stone foundations. Lowest bid submitted by Geo. Dobbin, Forty-second and Chester avenue, $27,800.

Elevated Stations, Cont. No. 575, Front and Berks streets, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, care of Director William S. Twining, 1211 Chestnut street, Philadelphia. Brick, concrete and steel, 45x16 feet and 39x14 feet, slag roof, concrete floors, stone foundations, marble work, rolled steel sash, iron work. Lowest bids submitted by W. W. Anstine & Co., Heed Building, Philadelphia, $78,971; Standard Const. Co., 1713 Sansom street, Philadelphia, $84,000.

Garage and Studio, Oak Lane, Philadelphia. Architects, Magaziner and Eberhard, 603 Chestnut street, Philadelphia. Owner, Horace Fleisher, Eighth and Asbury avenue, Oak Lane. Hollow tile and stucco, 1½ stories, 28x20 feet, shingle roof, cement and pine floors, stone foundations, iron work. Architects have received bids.

Scale Pit, Frankford, Philadelphia. Architect, private plans. Owner, United States Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Construction of concrete paving scale pit, 150-ton scale, concrete work, plumbing, iron work, wood piles, waterproofing. Owners taking bids due June 16th. Ketcham & McQuade, 1029 Brown steret; W. W. Anstine & Co., 1218 Filbert street, and Monaghan & Losse, Inc., 3016 Chestnut street, are figuring.

Mattress Factory, Spec. 4163, Navy Yard, Philadelphia. Architect, United States Government, Bureau of Yards and Docks, Washington, D. C. Owner, United States Government, Bureaus of Yards and Docks, Washington, D. C. Reinforced concrete and steel, 2 stories, 240x60 feet, slag or asphalt roof, hollow tile, metal lath, elevators, safety treads, roof ventilators, stone foundations, steam heating, electric lighting, rolled steel sash, hollow metal doors, fire escapes, iron stairs, iron work. Owners taking bids due June 23rd. Stang & Mitchell, Real Estate Trust Building; William R. Dougherty, 1610 Sansom street; Frank G. Stewart, 1619 Sansom street, and Standard Const. Co., 1713 Sansom street; F. W. Van Loon, Denckla Building; Kober Const. Co., 34 South Seventeenth street, and Thos. Reilly, 1616 Thompson street, Philadelphia, are figuring.

Hospital (alts. and add.), Broad and Catharine streets, Philadelphia. Architect, H. L. Duhring, Bailey Building, Philadelphia. Owner, Howard Hospital, on premises. Brick, concrete and steel, 3 stories, 15x32 feet, wing 15x32 feet, asphalt roof, fireproof and marbleloid floors, metal lath, kalamein doors, fire escapes, iron work, stone foundations. Architect has received bids.

Building, 1511 Walnut street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, West & Co., 1417 Chestnut street. Steel, brick, stone and concrete, 4 stories, 118x42 feet, slag roof, cement and terrazzo floors, metal lath, stone foundations, tile work, marble work, hollow metal sash, rolled steel skylights, iron stairs. Architects have received bids.

Manufacturing Building (add.), Thirty-ninth and Lancaster avenue, Philadelphia. Architect, J. F. Vodges, 34 South Seventeenth street, Philadelphia. Owners, Douglas Caramel Co., Thirty-ninth and Lancaster avenue, Philadelphia. Brick, 2 stories, 46x56 feet, slag roof, pine floors, elevators, stone foundations, electric lighting. Architect taking bids, due June 8th. George H. Evans, 45 North Thirteenth street; Frank I. Wintz, 1618 North Twenty-seventh street; France & Missar, 3324 Chestnut street, and Carr & Courtnay, 43 South Seventeenth street, are figuring.

Store and Office Building, northwest corner of Fifty-second and Market streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick, 2 and 3 stories (13 offices, 6 stores), 37x100 feet, slag roof, pine floors, macite partitions, stone foundations, hot water heating, electric lighting, tile and marble work, metal bulks. Will be ready for bids in a few days.

Manufacturing Plant and Office, Northeast Boulevard, Philadelphia, $1,000,000. Architect, not yet selected. Owners, Daniels Motor Car Co., care of Mr. Parrish, Reading, Pa. Work contemplated. Site purchased.

Garage, Sixty-ninth and Lawnton avenue, Oak Lane, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, C. H. Jacobs, on premises. Hollow tile and stucco, 2 stories, 20x25 feet. Architect taking bids, due June 14th. Wm. H. Eddleman & Son, 453 Green Lane, Roxboro, Pa.; Wm. J. Gruhler & Co., 219 High street; Tourison & Tourison, 1011 Chestnut street; John H. Dagney, York Road and Sixty-ninth street, Oak Lane, Philadelphia, and W. D. Lukens, North Wales, Pa., are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory (add.), Hunting Park avenue, East of Twenty-fifth street, $200,000. Architect, J. J. Bennett, Chicago, Ill. Owners, Simmons Co., Kenosha, Wis. Steel and brick, 3 and 4 stories, 100x360 feet, slag roof, steam heating, electric lighting, maple floors, rolled steel sash. Contract awarded to Wark & Co., 1737 Filbert street, Philadelphia.

Store (alts. and add.), Southeast Corner Twelfth and Girard avenue, Philadelphia, $4,500. Architect, E. L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Diskan Paint Co., on premises. Steel, brick work, plastering, slag roof, tile and marble work, carpentry, mill work, heating repairs, electric work. Contract awarded to John E. Spitz, 243 North Eleventh street, Philadelphia.

Office Building (alts. and add), Southwest Corner Seventeenth and Sansom streets, $15,000. Architect, private plans. Owner, Samuel T. Hall, Inc., 301 Liberty Building, Philadelphia. Brick, third and fourth story add., 10x18 feet, slag roof, electric lighting. Contract awarded to James C. Driscoll Co., 34 South Seventeenth street, Philadelphia.

Residence (alts. and add.) and Garage, 6099 Drexel Road, $10,000. Architect, Walter F. Price, 136 South Fourth street, Philadelphia.



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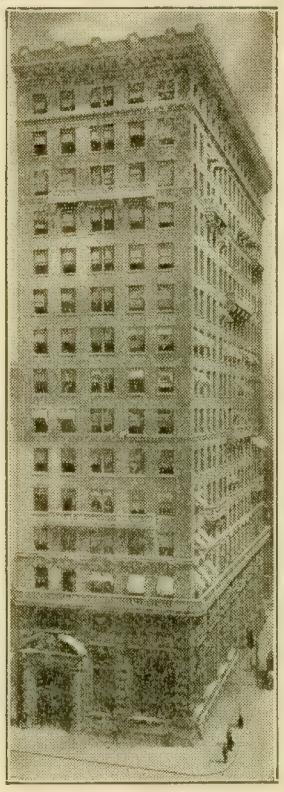
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Keiths' Theatre Building
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Owner, Mrs. Robert Scott, on premises. General alterations, brick add., 2 stories, 19x25 feet, garage, 2 stories, 18x25 feet, tile roof, stone foundations, cement floor, electric light. Contract awarded to Wilton W. Young, Overbrook, Philadelphia.

Store (add.), Northeast Corner Kensington avenue and Hazzard street, $3,000. Architect, private plans. Owner, Estate of Daniel Buck, Fifth and Jefferson streets, Philadelphia. Brick, 2 stories, 16x28 feet, slag roof, electric lighting. Contract awarded to Frank Buck, Fifth and Jefferson streets, Philadelphia.

Residences (2), 2131-33 Locust street, Philadelphia. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Grahame Wood, 1830 Rittenhouse Square, Philadelphia. General interior alterations, electric lighting, tile work, mill work, hot air heating, plumbing. Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

Apartment Building, Fifty-third and Market streets, Philadelphia, $7.500. Architect, private plans. Owner, L. F. Calby, Fifty-third and Market streets, Philadelphia. Brick, 1 story add., 35½x22 feet, slag roof, electric lighting, plumbing, composition floor, general alterations. Contract awarded to J. D. Fisher, 5414 Thompson street, Philadelphia.

Store and Dwelling, 43 North Fifty-second street, Philadelphia, $3,500. Architect, private plans. Owner, Mrs. E. Sanders, on premises. General alterations, new front, electric lighting. Contract awarded to Frank R. Shower, Fifty-first and Catharine streets, Philadelphia.

Garage, 1827-29 South Front street, Philadelphia, $10,000. Architect, private plans. Owner, Lotz Bros., 1825 South Front street, Philadelphia. Brick, 2 stories, 30½x58½ feet, slag roof, cement floors, electric lighting. Contract awarded to J. P. Callahan, 1628 Real Estate Trust Building.

Office Building, Northeast Corner Twentieth and Parkway, Philadelphia, $8,000. Architect, private plans. Owners, Parkway Realty Co., Twenty-first and Summer streets, Philadelphia. Brick, 2 stories, irregular shape, slag roof, steam heating, electric lighting, maple and pine floors. Contract awarded to Alex. Chambley, Twenty-first and Summer streets, Philadelphia.

Power House and Warehouse, Southeast Corner Keystone and Cottman streets, $70,000. Engineer, H. C. Eisenbise, Fifteenth and Chestnut streets. Owner, L. H. Gilmer Co., on premises. Brick, 2 stories, 30x70 feet, slag roof, electric lighting, concrete floors, rolled steel skylights. Contract awarded to W. D. Lukens, North Wales, Pa.

Storage House (fire repairs), 8 and 10 Letitia street, $9,000. Architect, private plans. Owner, John C. Taylor, 422 Walnut street, Philadelphia. Carpentry, mill work, painting and glazing. Contract awarded to Frank G. English, 1608 North Carlisle street, Philadelphia.

Garage, 936-38-40 North Mountain street, Philadelphia. Architect, private plans. Owner, Mrs. Mary A. Moran, 1717 South Tenth street, Philadelphia. Brick, 1 story, 45x50 feet, slag roof, cement floor, electric light. Contract awarded to J. Kline, 204 North Thirty-fourth street, Philadelphia.

Dwelling, Northwest Corner Weymouth street and Cheltenham avenue, $4,000. Architect, private plans. Owner, P. J. Brankin, 5700 Rising Sun avenue, Philadelphia. Frame, 1 story, 26x44 feet. Contract awarded to William Schmitt, 510 Ruscomb street, Philadelphia.

Bottling House (add.), Northeast Corner Nineteenth and Tree streets, Philadelphia, $5,200. Architect, John Sindoni, 19 South Sixteenth street, Philadelphia. Owner, Fiore Tavana, Eighteenth and Passyunk avenue, Philadelphia. Brick, 1 story, 15x44 feet, pine floors, slag roof. Contract awarded to Wilbur

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Building (add.), 1321 Vine street, Philadelphia, $5,200. Architect, private plans. Owners, Metro Picture Corp., on premises. Brick, third story add., 16x68 feet, slag roof, hot water heating, electric lighting, pine floors, metal ceilings. Contract awarded to Warren Bros., 1113 Cherry street, Philadelphia.

Garage, Twenty-third street, South of Westmoreland street, Philadelphia, $3,500. Architect, H. L. Hokanson, 1713 Sansom street, Philadelphia. Owner, Sharpless Specialty Co., on premises. Brick, 1 story, 21x85 feet, slag roof, steam heat, electric light, cement floors. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Chemical Mfg. Building (add.), Ridge avenue and Calumet street, $3,000. Architect, private plans. Owners, Powers, Weightman & Rosengarten, 916 Parrish street, Philadelphia. Brick, 1 story, 35x41 feet, slag roof, electric lighting. Contract awarded to Robert Cain, 916 Parrish street, Philadelphia.

Store and Dwelling (alt. and add.), 2633 West Girard avenue, Philadelphia, $3,000. Architect, private plans. Owner, J. Connelly, on premises. Brick, 1 story, 4x25 feet, and 2 stories, 13x16 feet, slag roof, pine floors, electric lighting, carpentry, mill work, plastering. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

Residence (alts. and add.), 1913 Spruce street, Philadelphia, $5,000. Architect, E. R. Fetterolf, 1524 Chestnut street, Philadelphia. Owner, Dr. George Morris Piersol, on premises. Brick work, metal lath, plastering, carpentry, mill work, plumbing, gas fitting, painting, glazing, hardware. Contract awarded to Horace H. Burrell, 206 South Quince street, Philadelphia.

Residence (alts.), 1424 Spruce street, Philadelphia, $13,000. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, name withheld. Interior alterations, hot water heating, electric lighting, tile work, hardwood floors, 1 story, 15x21½ feet, 1 story, 7x2 feet. Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Service Station, Southwest Corner Broad and Lycoming avenue, $15,000. Architect, W. G. Wilkens, Pittsburgh, Pa. Owner, Atlantic Refining Co., 1211 Chestnut street, Philadelphia. Terra cotta, 1 story, terra cotta roof, electric lighting, cement floors. Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Boiler and Engine House, Bodine street, South of Dauphin street, $28,000. Architect, private plans. Owner, Enterprise Mfg. Co., Third and Dauphin streets, Philadelphia. Brick, 1 story, 73x50 feet, slag roof, electric lighting, cement floors. Contract awarded to J. Wilson Brown Co., Heed Building, Philadelphia.

Medical Department Building, Tenth and Ontario streets, Philadelphia. Architects, Ballinger and Perrot, 329 South Broad street, Philadelphia. Owners, Surpass Leather Co., Ninth and Westmoreland streets, Philadelphia. Brick, 1 story, 80x80 feet, slag roof, cement and tile floors, safety treads, roof ventilators, iron work, tile and marble work, stone foundations (plumbing and electric work reserved). Contract awarded to George Kesler Cont. Co., Drexel Building, Philadelphia.

Store (alts.), 1505 West Susquehanna avenue, Philadelphia. Architects, Folsom and Stanton, 1328 Walnut street, Philadelphia. Owner, Max Staub, on premises. Lowering first floor, stone and brick work, plastering, electric lighting, steel work, painting, flush bulks. Contract awarded to Isaac Bankoff, 1850 North Seventh street, Philadelphia.

Store and Dwelling (alt. and add.), 2100-02

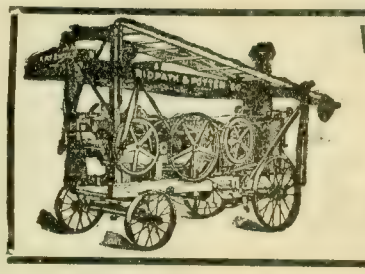


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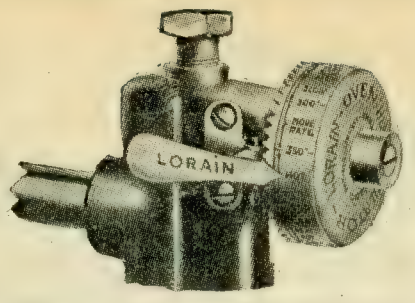
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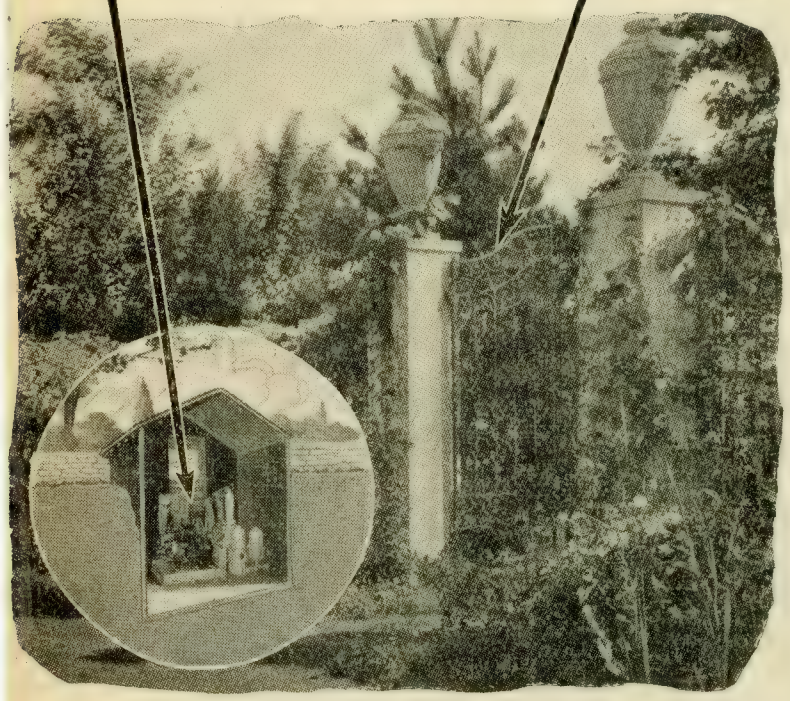
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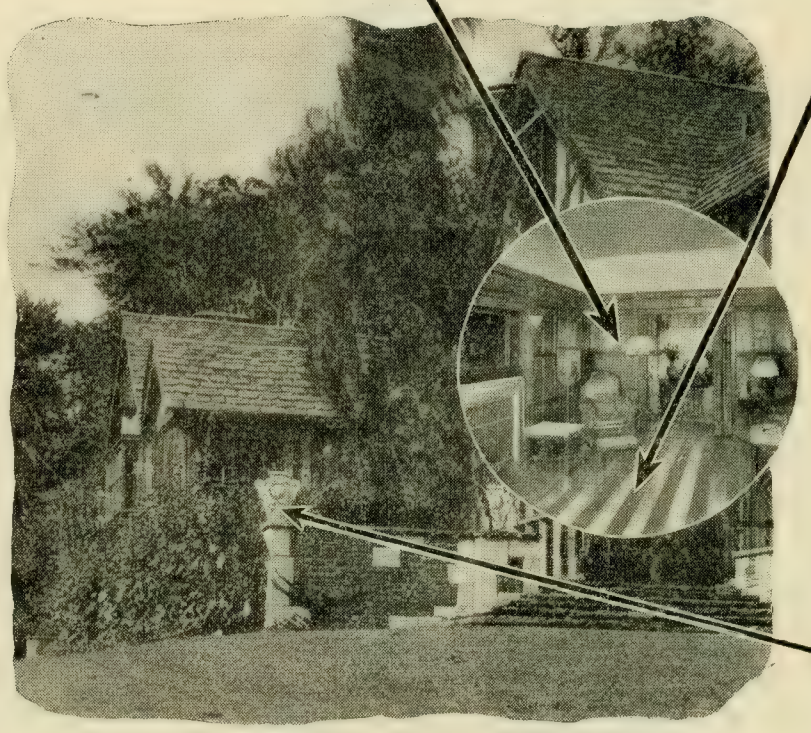
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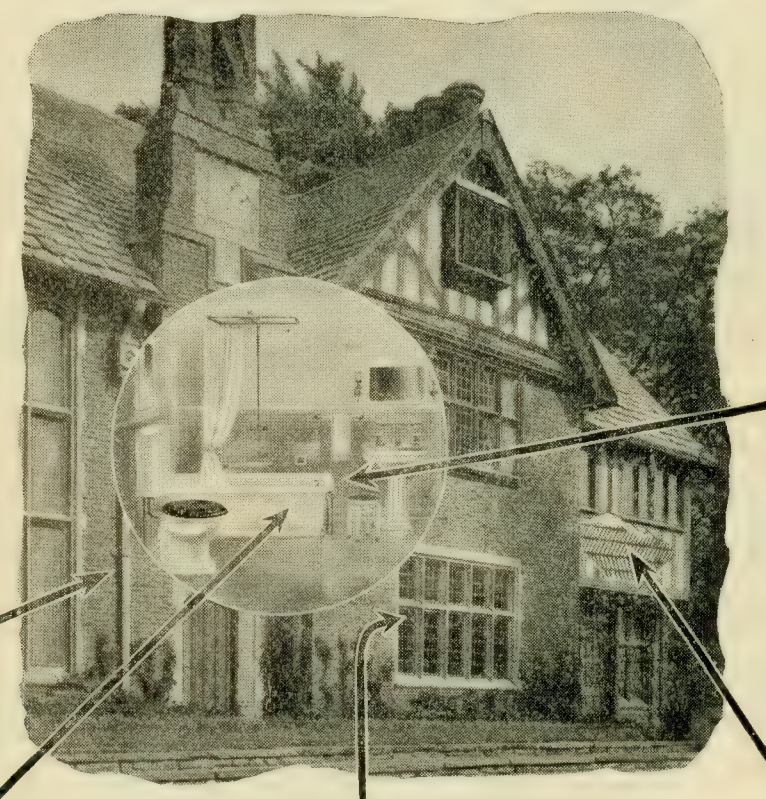


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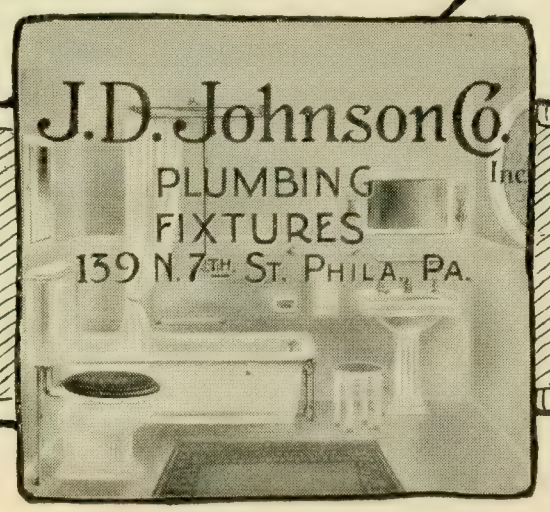
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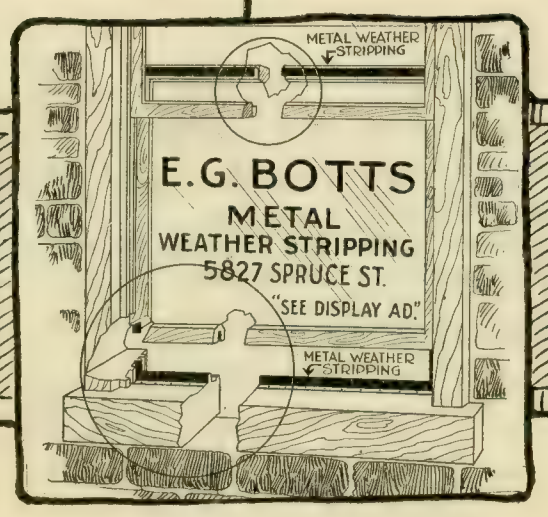






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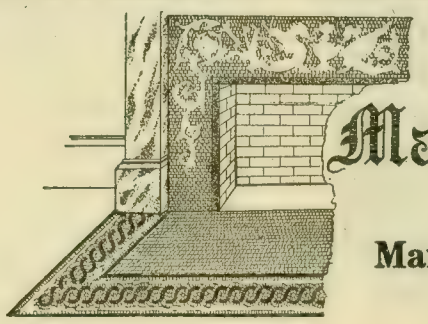


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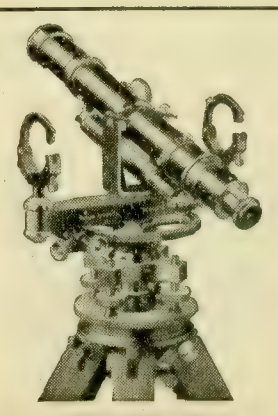
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Columbia avenue, $6,500. Architect, private plans. Owner, Max Gordon, on premises. Brick, 1 story, 13x12 feet, slag roof, electric lighting. Contract awarded to H. Slass, 1809 North Seventh street, Philadelphia.

Garage, 613 North Eighth street, Philadelphia, $7,500. Architect, private plans. Owner, Charles H. Fowler, 605 North Eighth street, Philadelphia. Brick, 1 story, 20x106 feet, slag roof, steam heating, electric lighting, cement floors. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Stores and Offices (fire repairs), 2309 Moore street, $4,000. Architect, private plans. Owner, Charles A. Shetzline, Broad and McKean streets, Philadelphia. General fire repairs. Contract awarded to H. F. Dinkelacker, 1612 McKean street, Philadelphia.

Storage Building (fire repairs), Northwest Corner Twenty-third and Washington avenue, $5,500. Architect, private plans. Owner, Philadelphia Roll & Machine Co., on premises. General fire repairs. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building, Philadelphia.

Twin Residences (8), Tenth street and Sixty-sixth avenue, Oak Lane, Philadelphia, $13,000 each. Architect, Karl F. Otto, Foulkrod and Oakland streets, Frankford, Philadelphia. Owner, Clarence J. Shilcock, Broad and Westmoreland streets, Philadelphia. Brick, stone and stucco, 2 stories, 16x56 feet, slate, tile and slag roof, hot water heating, plastering, hardwood floors, mill work, electric lighting, garages in basements. Contract awarded to Frederick G. Sterch, 3519 North Thirteenth street, who is taking sub-bids on all lines.

Saloon and Dwelling (alts.), 31 South Eleventh street, Philadelphia, $6,000. Architect, private plans. Owner, Bertha Hickey Estate, care of builder. Flush bulks and general alterations. Contract awarded to Chas. B. Henk, 718 Chain street, Norristown, Pa.

Residence (add.), 3635 Chestnut street, Philadelphia, $8,200. Architect, private plans. Owner, Mrs. L. S. Hinchman, on premises. Brick, 3 stories, 13x11½ feet, slag roof, general alterations, electric lighting. Contract awarded to J. Morris Daniels, 320 S. Quince street, Philadelphia.

Residences (2), Oakmont street, south of Veree Road, Philadelphia, $9,000. Architect, private plans. Owner, Clement Weekes, 538 Arthur street, Philadelphia. Frame, 2 stories, 16x14 feet, 16x20 feet and 16x8 feet, hot water heating, electric lighting, hardwood floors. Contract awarded to Jacob Hansen, Afton and Veree Road, Philadelphia.

Publishing Building (add.), Sixth to Seventh, Sansom to Walnut street, Philadelphia, $1,000,00. Engineers and architects, Frank C. Robert & Co., Real Estate Trust Building, Philadelphia. Owners, Public Ledger Co., Cyrus H. K. Curtis, president, Sixth and Chestnut streets, Philadelphia. Brick, steel and terra cotta, fireproof, one additional story. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Pennsylvania Construction News

Memorial Building (remodeling of fire house), Narberth, Pa. Architect, Walter I. Dothard, 2057 Summer street, Philadelphia. Owner, Borough of Narberth, care of Carl B. Metzger, Chairman, Narberth, Pa. Sketches submitted. Work contemplated.

Parsonage and Church Extension, Darby, Pa. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, Mount Zion Methodist Episcopal Church, Darby, Pa. Brick, 2 stories, 10x46 feet, slag roof, pine floors, stone foundations, electric lighting, tile work,

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iron work. Architect taking bids due June 11th. J .M. Yardley, 1716 Sansom street; William R. Dougherty, 1610 Sansom street; Hogg Const. Co., Denckla Building; F. B. Davis, 240 North Sixteenth street; Bowden Const. Co., 1713 Sansom street; H. John Homan, Middle City Building, Philadelphia, are figuring.

Bank and Hall (alts. and add.), Fleetwood, Pa. Architects, High and Huber, 11 North Fifth street, Reading, Pa. Owners, First National Bank of Fleetwood, care of D. Klechner, Fleetwood, Pa. Brick and terra cotta, 3 stories, 40x115 feet, tile floors, tile work. Architect taking sub-bids.

House, Wyomissing, Reading, Pa. Architect, H. Mauer, 226 Fifth street, Reading, Pa. Owner, S. R. Breneise, 801 Penn street, Reading, Pa. Brick, 2½ stories, 37x40 feet, slag roof, stone foundations, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids.

Building (add. and alt.) to Bank, Lebanon, Pa. Architect, Ritcher-Lee Co., Sixth and Court streets, Reading, Pa. Owner, Farmers' Trust Co., care of C. Gerhart, President, Lebanon, Pa. Brick, 5 stories, 52x205 feet, marble and tile work, court tile, granite front, grills, bronze work, vaults, plumbing, electric wiring, general interior alterations. Plans in progress.

Bungalow and Garage, near Reading, Pa. Architerts, Gerhard Bros., Penn street, Reading, Pa. Owner, Paul C. Horine, 420 Church street, Reading, Pa. Hollow tile, each 1½ stories, 35x59 feet and 24x80 feet, concrete foundations, tile roof, hardwood and concrete floors, electric light, tile work. Plans in progress.

Bank and Offices, Seventh and Franklin streets, Reading, Pa. Architects, Gerhard Bros., Penn street, Reading, Pa. Owner, Tobias Knoblauch, 109 South Seventh street, Reading, Pa. Brick and stone, 4 stories, 18x114 feet, stone foundations, slag roof, maple and pine floors, electric light, tile work. Plans in progress.

Store Building, Pottsville, Pa. Architect, H. Mauer, 226 Fifth street, Reading, Pa. Owner, S. S. Weiss, Pottsville, Pa. Steel and terra cotta, 30x90 feet, concrete foundations, slag roof, steam heating, electric lighting, tile and marble work, metal lath, roof ventilators. Plans in progress.

Residence, Haverford, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Gilbert Mather, 226 Walnut street, Philadelphia. Stone, 2½ stories, 30x52 feet, wing 18x30 feet, and 15x20 feet, slate roof, pine and oak floors, metal lath, waterproofing, stone foundations (heating, electric lighting, tile work and composition floors reserved), waterproofing. Architect taking bids due June 18th. Wills-Ludwick Co., 1708 Sansom street; J. Sims Wilson Co., 1125 Brown street; A. L. Fretz & Son, Heed Building; Milton W. Young, Overbrook, Pa.; George L. Croll, Rosemont, Pa., and Gray Bros., Rosemont, Pa., are figuring.

Residences (40), Royersford, Pa. Architects, R. H. Pepper & Co., 1963 Laveer street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x32 feet, slag roof, pine floors, hot air heat, electric lighting. Will be ready for bids in one week.

Sunday School Chapel, West York Borough, Pa. Architect, Edw. Leber, Hay Building, York, Pa. Owner, St. James' Evangelical Lutheran Church, H. T. Bowersax, on premises. Brick, terra cotta, 75x75 feet, 1 story, concrete foundations, slate roof, pine floors, electric light (heating reserved). Owners taking bids due June 15th. Hess Bros. and Geo. Hilbert, both of York, Pa., are figuring.

Church (alts.), York, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa., Owner, First Baptist Church, care of H. A. Delano, Chairman of Building Committee, York, Pa. General interior alterations, tile work, ornamental plaster, electric wiring. Will take revised bids in one month.

Bank, Fawngrove, York County, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, Care of Cashier, First National Bank of Fawngrove, premises. Brick, 2 stories, 35x55 feet, slag roof, hardwood floors, vapor heat, electric light, bank fixtures. Owner taking sub-bids.

School, Fawngrove, Pa., $25,000. Architect, B. F. Wilson, Rossmiller Building, York, Pa. Associate architects, Gimmel & Billmeyer, Rossmiller Building, York, Pa. Owner, care of architect. Brick, 1 story, 50x70 feet, concrete foundations, shingle roof, pine floors, electric light, roof ventilators. Architects will take bids next week.

Bank (alts.), Lewistown, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owner, Mifland National Bank, William Woods, President, Lewistown, Pa. Interior and exterior alterations, marble floors, tile work, vaults. Plans in progress.

Club Buildings, Bailey Road, Lansdowne, Pa. Architects, Heacock and Hokanson, Bailey Building Philadelphia. Owners, Country Club of Lansdowne, on premises. Removing old buildings to new locations and several new buildings, general alterations and additions. Plans in progress.

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Garage, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, A. Brehmer, Schuylkill and Hollenback avenues, Reading, Pa. Brick and concrete, 1 storp, 36x57 feet, concrete foundations, composition roof, concrete floors, electric lighting. Owners taking sub-bids.

Residences (40), Lansdale, Pa. Architects, R. H. Pepper & Co., 1963 Laveer street, Philadelphia. Owner, name withheld. Brick, 2 stories, 15x38 feet, slag roof, pine floors, hot air heat, electric lighting (carpentry reserved). Will be ready for bids in about two weeks.

Garage, Noble, Pa. Architects, Seeburger and Rabenold, 1524 Chestnut street, Philadelphia. Owner, H. P. Robinson, Sixth and Sedgley avenue, Philadelphia. Stone and brick, 1 story, 20x22 feet, slate roof, cement floor, electric lighting. Owner will build.

Dormitory, Blacksmith Shop, Garage and Stable, Harrisburg, Pa. Architects, Louis L. Stockton and Henry C. Pelton, 35 West Thirty-ninth street, New York. Owners, State Constabulary, care of Board of Commissioners of Public Grounds and Buildings, Harrisburg, Pa. Brick and steel, 1 story, 90x43 feet, wing 48x43 feet, 1½ stories, 32x37 feet, and 1½ stories, 101x30 feet, (2) wings 32x96 feet, slag and slate roof, concrete and pine floors, metal lath, waterproofing, iron work, hollow metal skylights, stone foundations. Owners taking bids due June 15th. Charles Strayer, Lemoyne, Pa.; Whiting-Turner Const. Co., Baltimore, Md.; S. W. Shoemaker & Son, Harrisburg, Pa.; Standard Const. Co., 1713 Sansom street; John R. Wiggins Co., Otis Building, and Edw. Fay & Son, 2 South Mole street; Graham & Wells, 3649 Filbert street, all of Philadelphia; Fisher Bros. & McClure, Harrisburg, Pa., are figuring.

South Office Building, Harrisburg, Pa. Architect, A. W. Brunner, 101 Park avenue, New York. Owner, Department of Public Grounds and Buildings, care of Mr. Rambo, Harrisburg, Pa. Granite, steel, 6 stories, 287x158 feet, excavations, foundations and superstructure. Owners taking bids due June 15th. Whiting-Turner Const. Co., Baltimore, Md.; S. W. Shoemaker & Son, Harrisburg, Pa.; C. N. Long, Harrisburg, Pa.; John Gill & Sons, Cleveland, O.; Cauldwell-Windgate Co., 381 Fourth avenue, New York; Edw. Fay & Son, 2 South Mole street; American Bridge Co., Widener Building, both of Philadelphia; Mellon-Stuart Co., Oliver Building, Pittsburgh, Pa.; Central Const. Co., Harrisburg, Pa.; Standard Const. Co., 1713 Sansom street, Philadelphia, and John R. Wiggins Co., Otis Building, Philadelphia, are figuring.

Orphans' Home (add.), Sunbury, Pa., $100,000. Architects, Ritcher-Lee Co., 32 South Seventeenth street, Philadelphia. Owners, I. O. O. F., Sunbury, Pa. Brick, steel and concrete, 3 stories, 2 wings, 43½x58 feet each, slate roof, composition floors, steam heat, electric lighting, tile work. Architects taking sub-bids.

Store (alts.), Tamaqua, Pa. Architect, Benj. Rush Stevens, 1737 Filbert street, Philadelphia. Slag roof, composition floors, tile work, skylights, flush bulks. Will be ready for bids in two weeks.

Bungalow, Secane, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, H. C. Rosenbluth, 910 Arch street, Philadelphia. Brick and stucco, 1½ stories, slate roof, hardwood floors, stone foundations, hot water heat, electric light, tile and marble work. Owner is ready for sub-bids and bids.

Residence, Wynnefield, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Stone, 3 stories, 28x50 feet, wing 18x13 feet. Preliminary sektches being drawn. Too early for details.

Residence (alts.), Lansdowne and Cedar avenues, Highland Park, Pa. Architects, Hance, Neely & Mitchell, 1619 Chestnut st., Philadelphia. Owner, J. G. O'Hara, on premises. Enclosing porches, hot water heating, electric lighting, cement work, paving, plumbing. Plans in progress. Owner will take sub-bids.

Pennsylvania Contracts Awarded

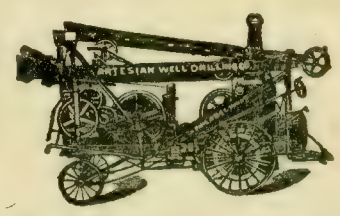
School, Barren Hill, Pa. Architect, Edwin G. Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Whitemarsh Township School Board, Barren Hill, Pa. Brick and terra cotta, 1½ stories, 38x100 feet, wing 65x55 feet, slate and slag roof, pine floors, metal lath, roof ventilators, stone foundations, metal doors, fire escapes, iron stairs, ornamental iron work (heating, plumbing, electric work and tile work reserved). Contract awarded to William H. Eddleman & Son, 453 Green Lane, Roxboro, Pa.

Grand Stand, Lewistown, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owner, Mr. S. Russel, Russel National Bank, Lewistown, Pa. Frame, 2 stories, 15x200 feet, composition roof and floors, electric light, seating capacity 4,000. Contract awarded to S. D. Steinback Sons, Lewistown, Pa.

House, St. Lawrence street, Reading, Pa. Architect, H. Mauer, 226 Fifth street, Reading, Pa. Owner, J. R. Yoder, on premises. Hollow tile and stucco, 2½ stories, 25x35 feet,

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slag roof, hardwood floors, hot air heating, electric lighting, tile work. Contract awarded to Charles Schlegel, Reading, Pa.

Theatre (alts.), Fourth and Penn streets, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Grand Theatre, Mr. Kantner, Fourth and Penn streets, Reading. New interior work, maple floors, electric light, tile, marble and terrazzo work, hollow metal sash, roof ventilators. Contract awarded to H. H. Focht. Reading, Pa.

Bank and Office Building, Cynwyd, Pa. Architects, Savery and Scheetz, Stephen Girard Building, Philadelphia. Owner, Merion Title & Trust Co., Ardmore, Pa. Brick and terra cotta, 1 story, 76x34 feet, slag roof, pine and terrazzo floors, metal lath, iron work, stone foundations (heating, electric lighting and plumbing reserved). Contract awarded to John E. Kearney, Middle City Building, Philadelphia.

New Jersey Construction News

Residence (alts. and add.) and Garage, 180 West State street, Trenton, N. J. Architects, Dreher, Churchman, Paul and Ford, 1424 Walnut street, Philadelphia. Owner, Mrs. Thomas S. Chambers, on premises. Brick, 1½ stories, 18x22 feet, slate roof, cement and pine floors, stone foundations, hot water heating, electric lighting, carpentry, mill work, painting, glazing, hardware. Architects taking bids due as soon as possible. Frank G. Stewart, 1619 Sansom street, Philadelphia, is figuring.

Convent, Trenton, N. J. Architects, Henry D. Dagit & Son, 4527 Pine street, Philadelphia. Owners, St. Mary's Roman Catholic Cathedral, Trenton, N. J. Stone, brick and steel, tin roof, oak, tile and maple floors, marble work, metal lath, roof ventilators, waterproofing, iron work, kalamein doors, electric lighting, steam heating, stone foundations. Architect taking bids due June 14th. William R. Dougherty, 1610 Sansom street, Philadelphia; M. Melody & Son, 1322 Race street; William J. McShane, 417 South Thirteenth street, Philadelphia, and George O. Deitrich, Riverside, N. J., are figuring.

Schools (2), Siclerville, N. J., and Cedar Brook, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, Township of Winslow, Horace Angelow, Clerk, Berlin, N. J. Brick, 1 story, 40x60 feet, slag roof, pine floors, stoves. Plans about completed. Will be ready for bids in a week.

Amusement Building, "Rendezvous," Atlantic City, N. J. Architect, Philip M. Jullien, Commercial National Bank Building, Washington, D. C. Owner, S. Bernard November, Equitable Building, Baltimore, Md. Details undecided. Plans in progress.

Community Building, Millville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, City of Millville, Millville, N. J. Brick and reinforced concrete. Preliminary plans in progress.

Residence, Merchantville, N. J. Architect, Arnold H. Moses, 135 South Fourth street, Philadelphia. Owner, name withheld. Brick and hollow tile, 2½ stories, 26x38 feet, shingle roof, stone foundations, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

Nurses' Home and Dining Hall, Sixth and Stevens sts., Camden, N. J. Architects, Morris & Erskine, 1716 Cherry st., Phila. Owner, Cooper Hospital, Camden, N. J. Reinforced concrete and brick, 3 stories, 45x51 feet, and 1 story, 40x50 feet, slag and tile roof, reinforced concrete floors (electric light, plumbing and heating reserved), tile and marble work. Architect taking bids due June 20th. J. S. Rogers Co., Drexel Building; Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia; J. W. Draper, Camden, N. J.; R. C. Ballinger & Co., 218 North Thirteenth street, and H. E. Grau Co., 1707 Sansom street, Philadelphia, are figuring.

Community House, Salem, N. J. Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner's name withheld. Concrete and stucco, 2½ stories, 50x60 feet, asbestos shingle roof, pine floors, stone foundations, hot air heat, electric lighting. Architect will be ready for bids in about three weeks.

New Jersey Contracts Awarded

Bank and Residence (alts. and add.), Third and Pine streets, Camden, N. J. Architects, Custer and Gill, Camden, N. J. Owners, First Italian National Bank, care of Antonio Depaolo, on premises. Brick, 2 stories, 68x8 feet, slag roof, tile floors, stone foundations, hot water heat, electric light, tile work. Contract awarded to Armand Menequale, 506 Linden street, Camden, N. J.

Pier, Camden, N. J., $100,000. Engineer, Fred Jasperson, 4927 North Thirteenth street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Coal handling pier, reinforced concrete and steel. Contract awarded to J. E. Breneman Co., North American Building, Philadelphia.

Delaware Construction News

Residences (7), Vandever street, Wilmington, Del., $28,000. Architect, private plans. Owner, William M. Connelly, 1340 Reed street, Wilmington, Del. Brick, 2 stories, 15x42 feet, concrete foundations, slag roof, pine floors, pipeless heater, electric lighting, tile work. Owner will build.

Residence (alts.), Newark, Del. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owner, Frank Wilson, Wilmington, Del. Residence to be stuccoed, shingle roof, new floors, electric lighting, new porches, new partitions. Will be ready for bids in two weeks.

Residence, Granogogue, near Wilmington, Del. Architects, associated, Albert Spahr, Pittsburgh, Pa., and Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Own-

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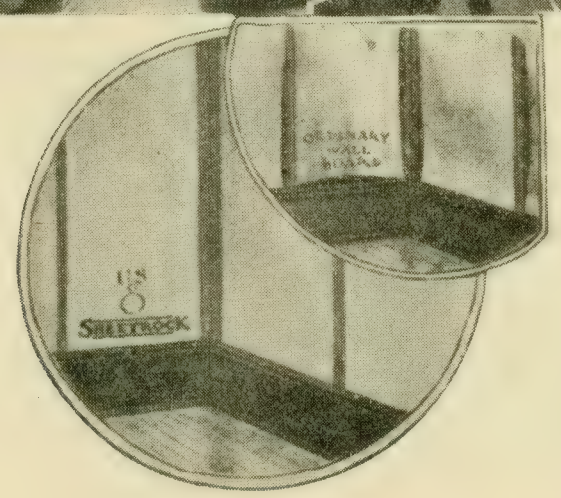
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cr's name withheld. Stone, 2½ stories, 146x59 feet, wings 41x26 feet, 34x54 feet and 55x23 feet, slate roof, oak and pine floors, stone foundation, steam heat, electric lighting, tile and marble work, iron work. Architects will be ready for bids in a few weeks.

Delaware Contracts Awarded

Gas Service Station and Dwelling, Penn and Union streets, Wilmington, Del., $11,384. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Dr. Earl Bell, Second and Monroe streets, Wilmington, Del. Brick, 3 stories, 27x27 feet, stone foundations, slate roof, concrete and hardwood floors, electric lighting. Contract awarded to W. H. May, 1014 Rodney street, Wilmington, Del.

Factory (alts.), Thirteenth and Poplar streets, Wilmington, $15,000. Architect, private plans. Owner, Chic Mint Gum Co., 2014 Boulevard, Wilmington, Del. Brick, interior alterations. Contract awarded to Charles Forwood, Wilmington, Del.

Miscellaneous Construction News

Euclid Hall (alts.), Broadway, between Eighty-fifth and Eighty-sixth streets, New York City. Architect, private plans. Owners, Dasco Realty Corp., 384-6 Broadway, New York City. Steel and iron work, terra cotta, brick work, carpentry, mill work, plastering, metal lath, marble and tile work, glazing, hardware. Owners taking bids. Pierce-Henon, Inc., Bulletin Building, figuring.

Constructing Hangar, Brook Field, San Antonio, Texas. Architect, C. W. Parks, Bureau of Yards and Docks, Washington, D. C. Owners, War Department, United States Government, Bureau of Yards and Docks, Washington, D. C. Steel and concrete, 1 story, 270x176 feet, gypsum asbestos roof, concrete floors, stone foundations, electric lighting, metal lath, metal weather strips, kalamein and steel doors, iron stairs and work. Lowest bidder: Item No. 1, Stang & Mitchell, 730 Real Estate Trust Building, Philadelphia., $495,000, time 365 days.

Hangar, Storehouse, Pigeon Loft, Spec. 4085, Anacosta, D. C. Architect, C. W. Parks, Bureaus of Yards and Docks, Washington, D. C. Owners, United States Government, War Department, Bureaus of Yards and Docks, Washington, D. C. Frame and corrugated iron, 110x140 feet, 20x50 feet and 10x80 feet, ready roof, concrete floors and foundations, hot water heating, asbestos boards, electric lighting, rolled steel sash, canvas curtains, concrete footing. Owners taking bids due June 15th. Stang & Mitchell, 730 Real Estate Trust Building, Philadelphia, are figuring. Deposit of $10.00 required.

Store Building (alts. and add.), 701-03-05 South Broadway, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Henry Waldorf, on premises. Brick, 45x80 feet, new front, general alterations. Architect taking bids. G. W. Tovell, Christian F. Richter, Frank Herbert, J. L. Robinson Co., R. B. Mason, all of Baltimore, Md., are figuring.

Building, Boaz, Ala. Architects, Magaziner and Eberhard, 603 Chestnut street, Philadelphia. Owner, John H. Snead Seminary, Boaz, Ala. Brick, 2 stories, 100x200 feet, slate roof, electric lighting, steam heating. Architects taking bids. Inglenook Const. Co., Burlington, Ala., are figuring.

Miscellaneous Contracts Awarded

School Building, No. 65, Baltimore, Md., $399,000. Architect, E. H. Glidden, Baltimore, Md. Owner, Board of School Commissioners, Baltimore, Md. Granite, stone, brick and steel, 3 stories, 111x63 feet, slag roof, metal lath, pine and granolithic floors, roof ventilators, metal ceilings, waterproofing, dampproofing, iron work and stairs, fire escapes, electric lighting, steam heating. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

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Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 22, 1920, for furnishing materials for the construction of an extension to the Animal House for the Hygienic Laboratory, United States Public Health Service, Washington, D. C., including materials for concrete, reinforced concrete, brick, miscellaneous iron and steel work, composition roofing, sheet metal work, lumber, mill work, painting, glazing, hardware, plumbing, electric work, etc., in accordance with drawings, specifications and bills of quantities attached thereto, copies of which may be obtained at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed proposals will be opened in this office at 3 P. M., June 22, 1920, for furnishing the labor required in the construction complete, with materials that will be furnished by the Government, of an extension to the Animal House, for the Hygienic Laboratory, United States Public Health Service, at Washington, D. C. Drawings and specifications may be obtained at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervsing Architect's Office, Washington, D. C., May 31, 1920. Sealed proposals will be opened in this office at 3 P. M., June 14, 1920, for the mechanical equipment for main hospital building, transformer building, gas house, and extension to boiler house of the United States Public Health Service Hospital at Sewells Point, Norfolk, Va. Drawings and specifications may be obtained from the medical officer in charge United States Public Health Service, custom house, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

PICATINNY ARSENAL, Dover, N. J. Sealed proposals for Alteration and Extension of Manufacturing Buildings at this Arsenal will be received until one o'clock P. M., June 11th, 1920. Address Commanding Officer.

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STYLES FOR STUCCO MODERN ENGLISH COUNTRY HOUSES

(Continued from Page 536.)

shadow of a great architectural heritage. Theirs is the assurance that can only come with long association. Their veneration for the "shrines" is tempered with a familiarity that permits them to work freely and unabashed by their antiquity.

As men of our own time, they have had to adjust their outlook to an infinite variety of problems in the planning and equipment of buildings. Constantly rising standards of physical comfort have demanded of them a machinery of living which would have staggered their predecessors. A maze of piping, vent ducts, conduits and wiring has to be built into walls and floors without marring the artistic effect of either facades or interiors.

How well such practical considerations have been met is evident when we think of the ingenious manner in which these elements have been hidden from view.

This aspect of building has been well served by modern mechanical development. Structural steel, reinforced concrete, hollow tile, sheet metal forms and a thousand other ingenious devices have diminished floor, wall, and column thickness to an astonishing degree. But the element that has aided the architect as perhaps nothing else, is metal lath. Its plastic character has made possible the reproduction of all types of intricate suspended ceilings and vaultings—the while being so thin as to permit of the greatest possible space in housing this mechanical equipment so essential to modern construction. All of which is an aspect of building which quite escapes the layman, as does the tremendous strides that have been made in the technical investigation of materials themselves. Micro-photography and industrial chemistry have taken building material out of the realm of guesswork, just as modern engineering has replaced the old time solution of structural problems. This mechanistic development has been admittedly greater in America than it has been abroad, and there has been of late a growing consciousness, not only of this, but of the fact that we—no less than the Europeans themselves—are the inheritors of the great building tradition that traces its origin to Greece and Rome.

Our better architects no longer feel that they must follow the Old World slavishly.

Instead there is a well-defined feeling that we are free to ransack the centuries for the architectural expression which best represent our needs and outlook on life. Correctness in modern design is best shown by a judicious handling of the various motifs, the absorption of their essentials and a fresh expression of the style chosen, "in the same language but with new phrases." Architecture can no more invent a new style than literature can invent a new language. To be guided by tradition, but be stimulated by new needs, is to produce fresh architecture instead of lifeless copies of the old. In this way the architect solves new problems with new materials and from the same fundamentals creates new compositions.

Lutyens has taken the best country house work of England, moulded it to his needs; and, in so doing has set the example for a new generation of architects on both sides of the Atlantic. These men are not only re-establishing principles of traditional domestic design, but they are discovering the right uses of material.

A characteristic example of work carried out in this spirit is the residence for Mr. James H. Foster, designed by Messrs. Walker and Weeks, of Cleveland. The house is located in a picturesque section of Ambler Heights, Cleveland.

The choice of stucco here was particularly fortunate, as the plastic character of the material lends itself readily to its irregular plan. The house owes its charm in a great measure to the fact that its picturesque character is in no sense forced, but is a direct and natural expression of the needs of the household.

The easy transition from the house to the garden, with its swimming pool, flower beds, and stone flagged walks is no small achievement in itself and is again traceable to the happy blending of the materials used. This feature once more proved its worth when, five years after building the house, the owner carried out extensive alteration additions, also in stucco.

Many laymen would have thought that a house as pretentious as the Foster residence should have been built of stone or at least of brick, in which case the cost would have been greatly in excess of that actually involved.

There then is economy, charm and facility of expression as well as execution.

The architects have achieved a practically fireproof building by their insistence that the entire basement ceiling be plastered on metal lath. With this vulnerable point protected, the fire resisting qualities of the house compare favorably with those of a much larger structure.

Lastly, this home was built in a climate popularly considered "too rough for stucco." The house, erected in 1912, has since stood the rigors of our northern winters to the entire satisfaction of both owner and architects, a tribute to the enduring quality of modern stucco work.—*General Fireproofing.*

MODERN STORE BUILDINGS

The year 1920 should prove to be a record breaker in the construction of store buildings. The merchants are prosperous, most of them having just concluded the busiest year they have ever had, and all signs point to an indefinite continuation of boom times. The up-to-date merchant realizes the value of a modern and attractive business place. Many of them have for years been looking forward to the day when it would be possible to have larger and more modern quarters, and the present period seems to offer the opportunity to the most of them.

For this reason it behooves the live builder to give some thought and study to this subject. The planning of the average store building is probably the simplest problem that a designer meets; the size and cost of course varies, but the elements of the plan are simple and have but a few variations. Store buildings on corner lots, however, sometimes develop into quite complicated problems and require considerable study before a suitable scheme is found.

The average store building consists merely of a rectangular box, the street side of which is glazed with plate glass. These windows are usually the only source of outside light, and in view of the fact that this source of light is often obstructed by solid panels to furnish a background for display purposes, it seems that top lighting by means of skylights should receive more attention than is customary. Of course, for stores housed in buildings more than one story in height, top lighting is seldom practicable, but for one-story buildings its adoption is recommended.

The fire regulations of most communities prohibit the use of wood for exterior use in business districts; therefore, only masonry walls will be taken up in this article. The exterior walls may be built of brick, concrete blocks, solid or reinforced concrete, or hollow tile. Roofs are usually flat and built of tar and gravel or prepared roofing. The roofs are supported on plank trusses set about two feet on centers, and the ceilings are formed on their under side. Fireproof

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roofs and ceilings are made of thin, reinforced concrete slabs or of a combination of steel, gypsum block, or hollow tile fillers, with reinforced concrete joists. The combination type of construction is light and requires the minimum of form work. The top of concrete roof slabs is mopped with hot tar or asphalt and the roofing laid on this in the usual manner. Fireproof roofs involving long spans are usually framed with steel or reinforced concrete girders and beams on which the slabs are supported. Metal lumber is also recommended for fireproof roof framing. Ceilings are made of plaster on wood or metal lath, of sheet steel plates stamped in various patterns, or of ceiling lumber. Ceilings vary in height from 10 to 14 feet, or even higher, but 12 feet is the usual height. The walls for one or two-story buildings should never be less than 12 inches thick if built of brick, and for three-story buildings the lower wall should be at least 16 inches in thickness. It should be remembered that a wall has considerable tendency to buckle and that although a thinner wall might be ample in so far as crushing strength is concerned, it is safer to provide against collapse by increasing the thickness. It should also be remembered that a comparatively thin wall, well built, is stronger than a thicker one, poorly built. The bricks should be well soaked—not merely sprinkled—in water just before they are laid, and cement mortar should be used where extra strength is required. All mortar should be protected against freezing until it has set hard, and the top of freshlylaidwork should be covered during rain storms. The surfaces of green walls exposed to driving rain should be protected with tarpaulins. Green walls are often bulged or blown down by comparatively moderate winds, and for this reason a little time is well spent in bracing them.

Windows on side or rear walls should be guarded against entrance by thieves, by means of heavy bars or solid shutters. Solid shutters made of metal also offer considerable fire protection. Frames and sash made of metal and glazed with wire glass are highly efficient against fire. If rods are used as window guards they should be of steel securely bedded in the masonry at top and bottom and should be not less than ¾ inch in diameter and set not more than 8 inches apart. Extra long rods should have a cross bar tieing them together at the middle to prevent them from being sprung apart. Transoms over rear or side doors should also be guarded or omitted entirely and glass should not be used in such doors. Scuttles in roofs should be provided with sliding bolts on the inside, but key-operated locks should not be used for such purposes, as it may be necessary for firemen or others to have free access to the roof from the inside.

Interior partitions in stores may be made with wood or metal studding plastered on wood or metal lath. Or hollow tile or gypsum blocks may be used for this purpose. In one-story buildings, toilets may be lighted and ventilated by means of skylights if desired. The basement may extend under the entire floor if desired; may consist merely of a space for fuel and the heating plant, or may be omitted entirely and the heating plant placed in a shed extension of the main building. In any case the boiler room should be fireproof with masonry walls, concrete floor and at least a metal lath ceiling. In a building without a basement the floor may be made of concrete laid on a bed of cinders or gravel. Fireproof floors over basements may be made of reinforced concrete, or combination slab, resting on reinforced concrete, steel or metal lumber supports. Metal lumber is made of pressed steel and is light, strong and is cut to fit by the manufacturers so that it is easily and quickly erected. Every person interested in modern building methods should obtain catalogues and descriptions of the various uses to which metal lumber may be applied. Concrete floors may be grooved to form patterns and may be colored by means of mineral pigments incorporated in the wearing surface mortar, or they may be finished with a wooden floor laid on sleepers or special attachments embedded in the concrete base. If wooden floor joists are used where there is no basement below, ventilation to prevent rotting should be provided by digging out the earth for at least six inches below the bottoms of joists and by inserting grille ventilators in the walls under the joists. Roof spaces should also be ventilated by means of grille ventilators in the walls or with dome ventilators in the roof. Roof ventilation not only makes the building more comfortable, but also aids to prevent sweating of the ceiling. Masonry walls should always be furred for the same reason. The wall-furring may consist of wooden or metal strips, metal lath formed with ribs which hold the lath away from the wall, or by means of hollow bricks, and hollow tile or gypsum furring blocks. —*National Builder.*

IRON STICKS IN CONCRETE BY FRICTION

The essential factor in the resistance exhibited by reinforced concrete resides in the adhesion between the iron and the cement. This adhesion is usually attributed to a sort of gluing action between the iron and the cement analogous to that between bricks and mortar. This is denied, however, by a recent experimenter, M. Vasilesco Karpen, who has just laid the results of his investigation before the Academy of Sciences in Paris, says the *Scientific American.*

If the cement employed in making reinforced concrete is poured upon a sheet of iron the adhesion observed is very much less than that exhibited in reinforced concrete. Moreover, it depends essentially upon the state of the surface of the iron. For example, if this surface is smooth and oily there will be no adhesion. Experiments made with bars of iron which are imprisoned, show on the contrary that there is adhesion between the iron and the concrete even if the bars are painted or oiled, though in this case there can evidently be no question of any gluing action.

Mr. Karpen is of the opinion that this solidarity is due to the friction between the iron and the surrounding concrete. He calls attention to the fact that the concrete contracts while setting; the bar or iron imprisoned within it is therefore gripped firmly by the contracted concrete, so that if an attempt be made to withdraw it it will be retained by friction. We are obliged to omit the elaborate calculations which the investigator employs to prove his point, merely stating his conclusions. He finds that the adhesion between the materials increases with the lapse of time just as the amount of contraction of the concrete does. While it is quite true that iron can also be glued to cement, this gluing action is not only slight and uncertain in amount, but can exist only through the contraction of the concrete and must cease if the latter expands even very slightly.

Mr. Karpen was led to undertake the study of this question by the observation of reinforced concrete works in the process of being demolished. He noted that the concrete ceases to adhere to the iron unless the latter is entirely surrounded. As a general thing in the calculation concerning structures in which reinforced concrete is employed, no account is taken of the contraction of the concrete, since this factor is considered as being too uncertain. M. Karpen's theory, on the contrary, demonstrates that it is precisely this factor which produces the indispensable solidarity between the two materials, and shows the capital importance which must be attributed to the knowledge of the co-efficient of contraction of the concrete.—*National Builder.*

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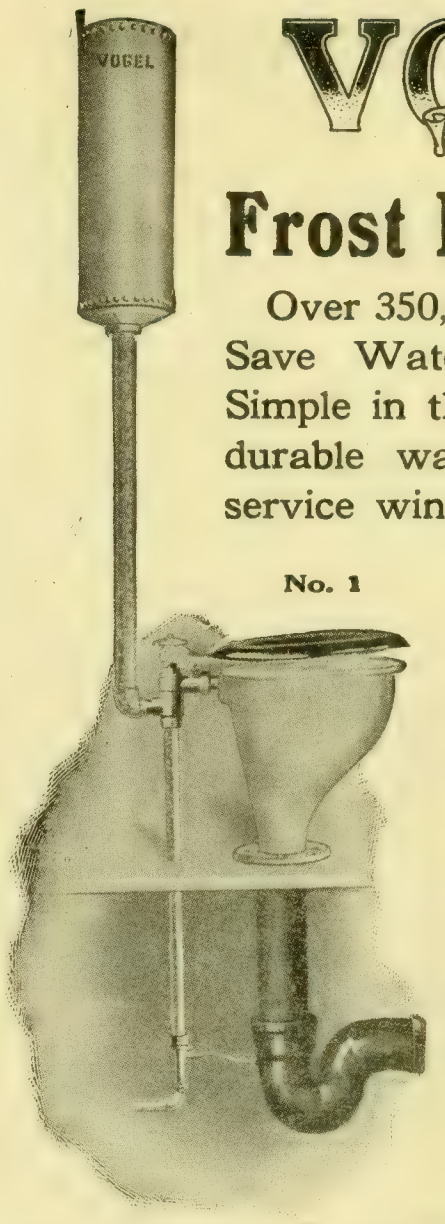
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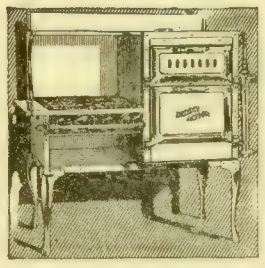
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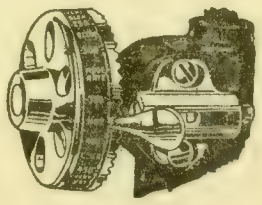
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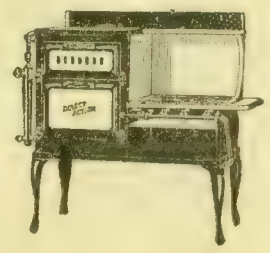
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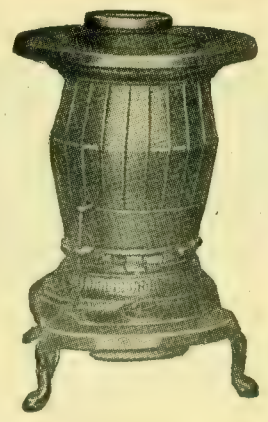
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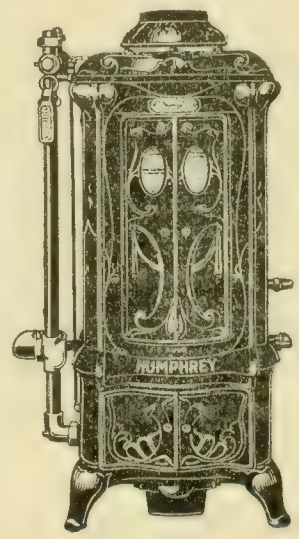
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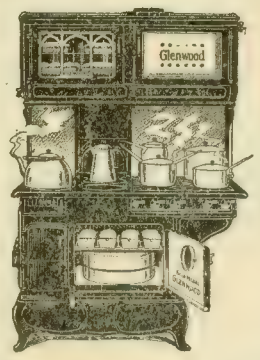
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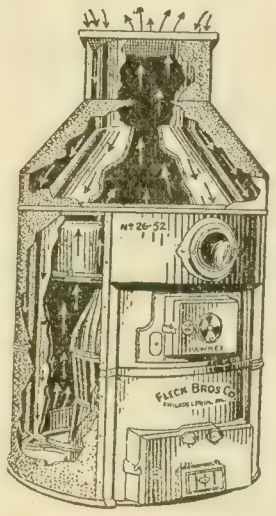


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 24

PHILADELPHIA
June 16, 1920

BUILDERS' GUIDE

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As The Editor Sees It

THE housing situation becomes more alarming every day. From every quarter come reports of doubled apartment rents, and houses sold over tenants' heads. People with children find it really impossible to lease an apartment, and, altogether there is a wild scramble to find shelter. House building should be going on at doubled speed, whereas in reality the amount of work being done is a mere drop in the bucket. Of course, the high cost of building prohibits a great deal of very necessary construction, and a concensus of opinion points to labor as a great factor in these high costs.

A three months' investigation of high building costs was recently undertaken in Cleveland, O., and in a report of the County Grand Jury in that city, the chief blame for the increases in building costs was placed on labor's refusal to do "a day's work for a day's pay."

The report followed a three months' investigation in which members of the jury heard testimony of more than 100 witnesses, including builders, dealers in material and supplies and representatives of labor organizations.

The report declares no evidence to indicate the existence of a combination or trust to keep up building prices had been found.

Workmen employed in building operations are doing less than one-half the work they did in pre-war times, the jury charges, and are receiving twice the wages.

In an interview by a representative of the *National Builder,* one of the biggest building contractors in the Middle West, one whose work is mainly the erection of structures costing hundreds of thousands of dollars or millions of dollars, said:

"No, I will not permit you to use my name at this time in an interview as coming from me. The situation in the building line is so delicate that anything I would say might come back to me and create an uproar among the other business men with whom I have to deal. Even a short truthful article in a daily paper the other day had that effect. Now is a time when every man connected with the building industry should take heed to what he says, and often it is better for him not to talk at all.

"As I see it, the present situation in building is due mainly to three things. One of these is the tyranny of the labor unions, which are making excessive demands and which precipitate strikes now in one line and now in another, till a building contractor is no longer able to estimate what any job will cost. The result is that things are kept stirred up and the whole building outlook placed in an uncertain state. While the effect on the men is to keep them in a mood to do less than a fair day's work, I am in favor of labor unions, but not in favor of the many things the labor unions are doing.

"The second great thing is the fact that the union laborers will not handle material that does not come from certain companies or that is not, as they say, union made. That prevents us from buying material where we could buy it at a fair price instead of at an excessively high price.

"The third factor is the combination that exists among the dealers handling some lines of building material by which a uniformly high price is made, but it is always practically the same price. I have told them in their meetings that this policy of fixing a price is all wrong and is also contrary to the laws of this country. I have warned them that they are laying themselves open to prosecution by the Government for thus acting in restraint of trade.

"They reply that they want to make some money. Well, I want to make some money also; but I want to do it in a fair way and in accord with the spirit of our laws that are made to prevent this very practice of price fixing.

"The fact that these things are not secret, that they are generally known by the people, is one reason why it is so difficult to finance new building operations or get people to put money into buildings at the present level of prices for material and labor."

DRAWING MATERIALS

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BLUE PRINTS

AN average annually of 1,040,000 marriages in the United States as against 70,000 houses built in 1919, is the interesting contrast made by the manager of the St. Louis Housing Association at a recent address before the American Society of Mechanical Engineers. Only 20,000 houses were built in 1918 and 70,000 in 1919, according to this authority, who points out the need in this country of 3,340,000 additional houses. This association is building houses for workmen at cost and suggests that similar associations be organized in every city to prevent house famine.

Such statistics as the above emphasize the importance of "doing something" to relieve the situation, and not until the laboring man can be made to realize his immense responsibility in the matter, will the problem be ultimately solved.

It may be that we shall have to employ some such methods as England, for "Luxury building" in London has now been extended to "any building contemplated or in the course of construction which may cause a shortage of labor or material for the provision of dwelling accommodation." The London City Council has served notices on a number of firms ordering work to cease on their premises in respect to building or alterations. Among the firms receiving such notice are some of the largest department stores.

The chairman of the Building Control Committee of the London County Council is quoted in Daily Commerce Reports of the Bureau of Foreign and Domestic Commerce as saying that serious thought will be given before a ban is placed on the continuation of work in which highly skilled labor that would be of little use in the construction of dwelling houses is employed, and if a building would be a source of enormous local revenue or result in increased employment or would help increase export trade, its construction would doubtless be permitted.

FIRE prevention has taken on a new and greater significance due to the great scarcity of houses, and never before have fire losses and causes been so widely discussed. Many contradictory and misleading statements as to fire causes are almost as numerous as those who make them, if one may credit the fire reports printed in newspapers and other journals. In an address said to have been delivered at a recent convention with reference to wooden shingles it was stated that 90% of all the fires in large cities originated from roofs; another so-called "authority" is quoted in the daily press as saying that 95% of the fires in dwellings, where so many losses occur, start inside the house.

The sources of information for these two statements are of course not given, but if one may trust the official reports of fire chiefs in the country as compiled by such magazines as *Fire and Water Engineering* (and this would seem to be as authoritative and unprejudiced a source as could be secured) the fire losses in 1917 and 1918 show that 3% and 2.4% respectively of the total losses are attributable to "sparks on roofs." Reports from the same sources for the first quarter of 1920 indicates a great preponderance of fires in congested and business districts of our cities. Of the $67,000,000 fire loss during the first three months of 1920, $57,000,000 was of public and business buildings, and only about $3,300,000, or about 5% in dwellings. The greater part of the loss was therefore of buildings of fire-resistive or semi-fire-resistive construction and supposedly incombustible. It would appear that the great agitation directed in some places against shingle roofs and frame dwellings, might better be directed against the weakness in so-called incombustible construction, against carelessness and inadequate fire-fighting machinery.

Insufficient supervision by building departments of the greater part of new construction or installation of fire prevention equipment in public and business buildings, lack of efficient and consistent inspection of buildings after completion, as well as efficient building regulations are accountable for many of these preventable losses by fire which occur with seeming regularity.

The new Zoning Commission of Philadelphia which Mayor Moore recently appointed to provide regulations for the orderly development of the city in future years, will ask an appropriation of $20,000 to conduct its work during the remainder of the year.

Joseph E. Wagner, acting director of the Department of Public Works, was made president of the Commission and William C. Haddock, a former director of the Department, vice chairman, at a meeting held recently. John B. Sinkler, City Architect, will act as secretary, and three standing committees were selected to deal with the zoning problem.

George S. Webster, chief of the Survey Bureau, will head the committee on districting the city by height regulations, while the districting of the city so as to regulate the use to which buildings may be put will be in charge of a committee headed by Walter C. Ballenger. Milton C. Medary will be chairman of the committee in charge of regulations as to the area which buildings may be permitted to cover on a given lot.

WHERE PROFITS ARE LOST

To Enforce Some of the Innocent Looking Clauses Which Appear Commonly in Contracts Would Place Contractor's Equipment, Foremen, Profits, and Capital Under Absolute Control of Owner or His Engineer—Clauses Which Are in Effect Liens on Property and Waivers to Claims for Extra Work

By Royal A. Stone
Attorney-at-Law, Minneapolis, Minn.

IN one contract that we opened some time ago, we found in the specifications, and very deep in the specifications, sunk 'way down in the fine print towards the end, the following paragraph:

"Any omission to disapprove of the work of the engineer at the time of the monthly or other estimate being made, shall not be construed to be an acceptance of any defective work, etc."

You are all familiar with those general clauses in the contract. As I have indicated, the draughtsman of the particular contract went just as far as possible to confuse—he may not have intended to, but that was the result—so that the careless contractor might very easily be led into signing that contract without actually knowing what was in it. Thousands and thousands of such contracts have been signed by parties who knew what was in them.

I am going back to that first paragraph because it is objectionable from for a moment. This work must necessarily be done pursuant to the designs and under the direction of the engineer; but tell me, if an engineer comes along with a piece of railroad work or drainage canal and sees that the piece of work is boing done improperly, that the structure is contrary to the specifications, that it is inherently weak, has he any right to pass it up and in six months hence, after you have gone and after the outfit is moved somewhere else, to spring this specification and say, "You have got to go back and do it all over again?"

I think that a fair provision would be along this line:

(Continued on Page 569.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Manufacturing Building, Allegheny avenue and Hancock street, Philadelphia. Architects, William Steele & Sons Co., 1600 Parkway, Philadelphia. Owner, Moss Rose Mfg. Co., care of Solomon Selig, on premises. Reinforced concrete, 5 stories, 98x108 feet, slag roof, cement floors, stone foundations, steam heat, electric lighting, rolled steel sash, fire and kalamein doors, iron stairs, iron work, elevators, roof ventilators. Engineers will build and are taking sub-bids.

Stores, Office Building and Moving Picture Theatre, Southeast Corner Eleventh and Market streets, Philadelphia. Owners, Stanley Co. of America, care of Jules Mastbaum, president, 1424 South Penn Square, Philadelphia. Brick, steel, concrete, stone and terra cotta, 156x180 feet, rolled steel sash, metal lath, electric lighting, steam heating, elevators, tile, marble and terrazzo work, ornamental iron work. Working plans in progress.

Garages (6), 823-25-27 Sixty-fifth avenue, Oak Lane, Philadelphia, $3,000. Architect, private plans. Owner, Harry C. Weller, 1338 Ruscomb street, Philadelphia. Brick, 1 story, 10x20 feet, slag roof, cement floor, electric light. Owner will build.

Building (alts. and add.), 708 West Washington Square, Philadelphia. Architect, Charles H. Hillman & Son, 400 Chestnut street, Philadelphia. Owner, Houston Dunn, Inc., on premises. Cement and concrete work, steel and iron work, carpentry, mill work, pine floors, plastering, metal lath, electric lighting, plastering, hardware, painting, glazing. Revised plans in progress.

Store Building (alts.), 119 South Front street, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Bank Building, Philadelphia. Owners, Joseph Tetley & Co., on premises. New front, general interior and exterior alterations, brick work, plate glass, plumbing, steam heating, electric lighting, elevator, plastering. Architects are ready for sub-bids.

Residences (2), 6609-11 Lincoln Drive, Philadelphia, $40,000. Architect, private plans. Owner, James N. Mitchell, Forty-sixth and Market streets, Philadelphia. Stone, 3 stories, 37x28 feet, slate roof, hot water heat, oak floors, electric lighting, tile and marble work. Owner will build.

Store and Garage (add.), Thirty-sighth and Lancaster avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, George B. Davis, on premises. Brick, 1 story, 32x90 feet and 36x80 feet, slag roof, maple and cement floors, stone foundations, steam heat, electric lighting. Plans in progress.

Garage (add.), Spring street, between Tenth and Eleventh streets, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Thomas R. Humphrey, on premises. Brick (slow burning construction), 2 stories, 33x81 feet, basement, 15x40 feet, slag roof, cement floors, steel girders, stone foundations, heating extensions, rolled steel sash. Architect will be ready for bids and sub-bids in a few days.

Box Storage Building, Tacony and Fraley streets, Bridesburg, Philadelphia. Architect, Stanford B. Lewis, Dexter Building, Philadelphia. Owners, Abrasive Co., on premises. Brick, 1 story, 100x60 feet, slag roof, plank floors, concrete foundations, steam heating, electric lighting, plumbing, hollow tile, elevator extensions, painting and glazing, metal sash, mill work. Architect is ready for sub-bids.

Office Building (alts.), 1310 Arch street, Philadelphia. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, U. S. Loan Society, on premises. Steel work, steel sash, fire escapes, carpentry, mill work, plastering, skylights, slag roof, plumbing, painting, glazing. Architect taking bids. Wills-Ludwick Co., J. M. Yardley, 1716 Sansom street, and George H. Evans, 45 North Thirteenth street; Graham & Wells, 3649 Filbert street, are figuring.

Elevated Station, Cont. No. 560, Northeast Corner Front and Fairmount avenue. Steel and reinforced concrete (plumbing separate bid). **Station Platforms,** Cont. 571, Kensington avenue at Huntingdon and Tioga streets, and Torresdale avenue, Front street at Berks and Fairmount avenue. Steel and concrete, steel sidings, wood, slag or asbestos lumber roofs, copper work, galvanized work. Architect, private plans. Owners, City of Philadelphia, care of Director William S. Twining, 1211 Chestnut street. Owners taking bids due June 22nd at noon.

Parish House, Chestnut Hill, Philadelphia. Architect, Walter H. Thomas, 130 South Fifteenth street, Philadelphia. Owner, St. Martin-in-the-Field, Chestnut Hill, Philadelphia. Stone and steel, 1½ stories, 55x65 feet, wing 25x35 feet, slate roof, maple floors, metal lath, iron work, rolled steel skylights, tile work, steam heating, electric lighting, stone foundations. Architects taking bids due June 21st. Metzger & Fisher, Otis Building; Frank E. Wallace, 1220 Chancellor street; William J. Gruhler & Co., 219 High street; John E. Walt, 204 East Willow Grove avenue, and Alfred E. Martin, Willow Grove avenue, Chestnut Hill, are figuring.

Garage and Pipe Racks, Tenth street below Erie avenue, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Froelich Bros., Inc., 142 North Seventh street, Philadelphia. Brick and steel, 1 story, 50x40 feet and 30x113 feet, slag roof, cement floors, iron work, stone foundations (heating and electric work reserved). Architects have received bids.

Roof and Foundation Work, Broad and Spruce streets, Philadelphia. Architect, Cass Gilbert, 244 Madison avenue, New York City. Owners, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Temporary roof (wood) and concrete work. Architect has received bids.

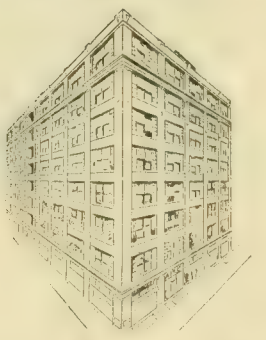
Synagogue, Forty-first and Parkside avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Tikvan Israel Cong., care of architect. Brick, 3 stories, 58x115 feet, slag roof, electric lighting. Plans in progress.

Twin Residence, 428-30 Locust street, Germantown, Philadelphia. Owner, Mrs. T. William Kimber, 535 Church Lane, Germantown, Philadelphia. Architect, Thomas B. Lippincott, 10 South Eighteenth street, Philadelphia. Hollow tile or brick and stucco, 2½ stories, 36x40 feet, wing 17x20 feet, slate roof, parquetry floors, hot air and hot water heat, electric lighting, tile work. Architect is ready for bids.

Building (alts. and add.), 1718 Cherry street, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, George Vaux, Jr., Bryn Mawr, Pa. General alterations. Plans in progress. Will be ready for bids in two weeks.

Store (alts. and add.), Fifty-seventh and Market streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, G. T. Pflaumer, Fifty-seventh and Market streets, Philadelphia. Brick, 3-story add., slag roof, general alterations, hardwood floors, tile and marble work, metal bulks. Owner taking bids. J. D. Fisher, 5414 Themp-

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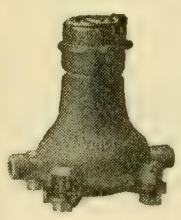
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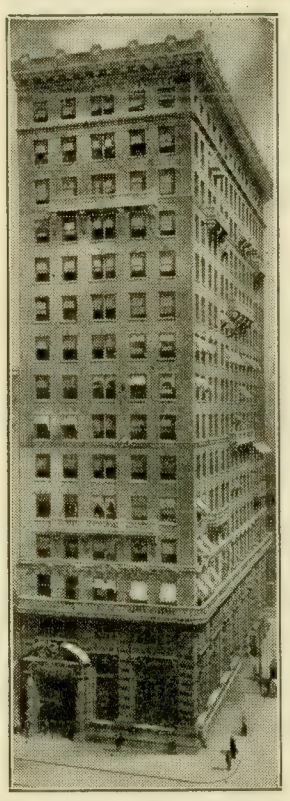
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Commercial Trust Building
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son street, and Julius Nelson, Sharon Hill, Pa., are figuring.

Experimental Shop, Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Brick, concrete and steel, 3 stories, 200x60 feet, slag roof, maple floors, metal lath, elevators, waterproofing, iron work, kalamein doors, rolled steel sash, stone foundations (heating and electric work reserved). Owners taking bids due June 22nd. Ketcham & McQuade, 1029 Brown street; Monaghan & Losse, Inc., 3016 Chestnut street; William R. Dougherty, 1610 Sansom street; W. W. Anstine & Co., 1218 Filbert street, and Thomas Reilly, 1616 Thompson street; Hughes Foulkrod Co., Commonwealth Building, are figuring.

Rectory, 5001 Master street, Philadelphia. Architects, H. Rex Stackhouse and Harry Parker, 129 South Fifth street, Philadelphia. Owners, Roman Catholic Church of Our Lady of Angels, care of Rev. Victor Strumnia, D. D., on premises. Stone and brick, 2½ stories, 27½x47 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work, plumbing. Plans completed and may be seen at office of the owner, who is ready for sub-bids.

Elevator Shaft, Building No. 46, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, United States Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Brick work and concrete work, kalamein doors. Lowest bid submitted by Kober Const. Co., 34 South Seventeenth street, Items Nos. 1, 2 and 3, $15,332; alternate, $16,562.

Artillery Shop, etc., Circular 323, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, United States Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Concrete work, iron and steel, carpentry, slag roof, glazing, metal lath, plastering, painting, plumbing. Lowest bid submitted by Kober Const. Co., 34 South Seventeenth street, $61,500.

Post Office Building (add.), Frankford avenue and Unity street, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Lessees, United States Government, Treasury Department, Washington, D. C. Brick and stone, side add. 12x80 feet, rear add. 40x40 feet, slag roof, maple floors, stone foundations, heating and lighting extensions. Plans in progress. Ready for bids in three weeks.

Residence and Garage, Chestnut Hill, Philadelphia. Architects, Mellor, Meigs & Howe, 249 South Juniper street, Philadelphia. Owner, C. J. McManus, Wissahickon avenue and Carpenter street, Philadelphia. Stone, 2 stories. New plans in progress.

Church and Parsonage, Fifth and Ruscomb streets, Philadelphia. Architect, Harvey Crean, care of C. D. Myers, 5124 North Fairhill street, Philadelphia. Owner, Lindley Methodist Episcopal Church, care of Rev. Edwin F. Carson, 5100 North Fairhill street, Philadelphia. Stone. Too early for details. Plans in progress.

Office Building (add.), Sixteenth and Sansom streets, Philadelphia. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owners, McIlvain & Co., Otis Building, Philadelphia. Rough texture brick, reinforced concrete and terra cotta trimmings, 12 stories, 30x65 feet, Barrett roof, metal lath, electric lighting, dampproofing, marble and terrazzo work. Plans in progress.

Boiler House, 1134-48 North American street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, Bloch Go-Cart Co., 1136 North American street, Philadelphia. Brick, stone and concrete, 1 story, 40x50 feet, slag roof, cement floors, stone foundations, iron work (heating and lighting reserved). Architect taking bids due June 18th. Smith-Hardican Co., 1606 Cherry street; Hogg Const. Co., Denckla Building; W. O. Springer, 2004 Naudain street; Lam Building Co., 1001 Wood street; Kober Const. Co., 34 South Seventeenth street, and Harry R. Rust, 724 Ludlow street, Philadelphia, are figuring.

Drug Store and Dwelling (alts.) to Apartments, 6235 Lancaster avenue. Architect, M. Wells, Cynwyd, Pa. Owner, F. H. Robinson, on premises. New partitions, hollow metal skylight, metal bulks, iron work, tile work (heating reserved), electric work and fixtures, hardwood floors. Architect taking bids due June 27th. Charles C. Pace, Merion, Pa., is figuring.

School and Church, Sixty-third and Buist avenue, Philadelphia. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Barnabas R. C. Church, care of Rev. James E. Dougherty, on premises. Stone, 3 stories, 146x53 feet, slag roof, pine floors, stone foundations, steam heating, electric lighting. Plans completed.

Residence and Garage, 755 Upsal street, Germantown, Philadelphia. Architect, Frank V. Nickels, 4400 Manayunk avenue, Philadelphia. Owner, C. J. Sterritt, care of architect. Stone, 3 stories, 24x46 feet, and 1 story, 18x24 feet, slate roof, hardwood floors, cement work, stone foundations, vapor vacuum heat, electric lighting, tile work (grading and shrubbery reserved by architect). Plans completed. Will be ready for bids in one month.

Theatre (alts.), Fifty-second street, near Market street, Philadelphia. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owners, Belmont Theatre, Nixon-Nirdlinger, Inc., Sixteenth and Walnut streets. General remodeling, reinforced concrete and steel work, tile and marble work. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alts.), 6358 Greene street, Germantown, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. General interior alterations. Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

Service Building, 933 North Broad street, Philadelphia, $29,000. Architect, private

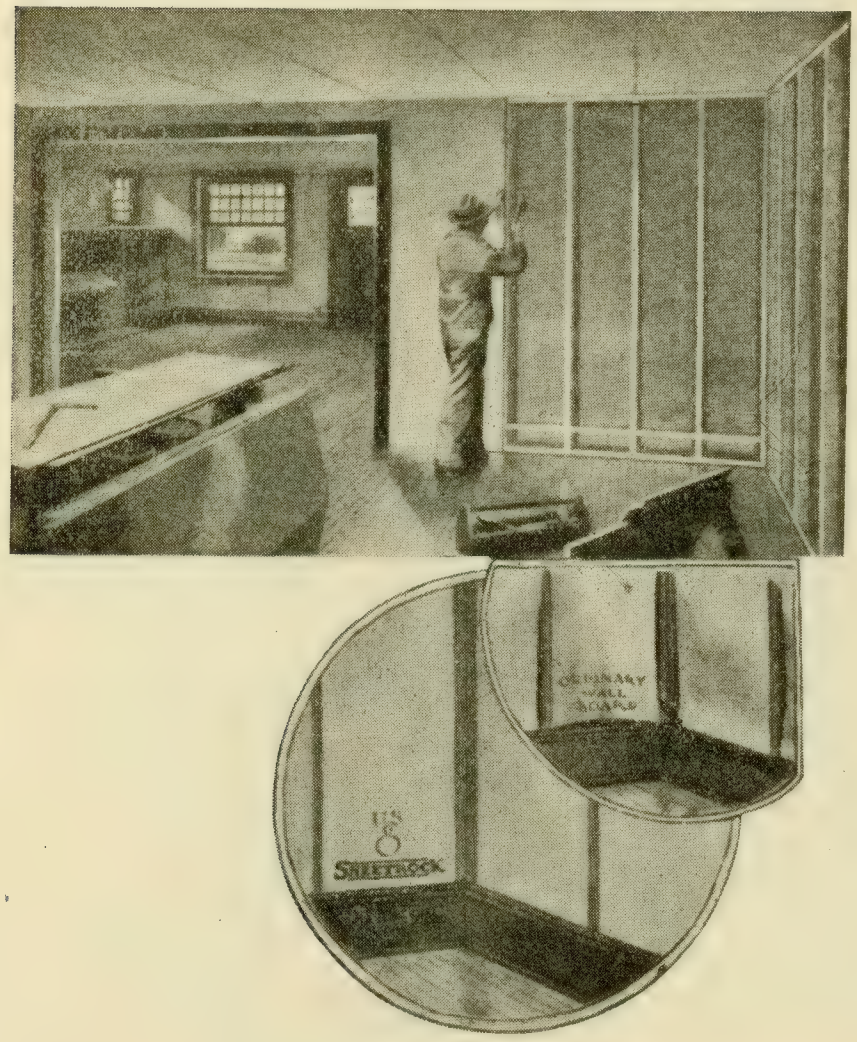
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plans. Owner, Edward Monroe Harris, 2214 Chestnut street, Philadelphia. Brick, 2 stories, 26x160 feet, slag roof, electric lighting, steam heating, plate glass, mill work. Contract awarded to Edward Cunningham, 2214 Chestnut street, Philadelphia.

Stable (alts.), Twenty-fifth and Lombard streets, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, New York Pie Baking Co., on premises. Concrete and cement work, waterproofing, steel and iron work, rolled steel skylights, carpentry, mill work, hardware, plumbing and drainage. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Stores and Dwellings (alts. and add.), 5402-04 Girard avenue, $6,000. Architect, private plans. Owner, J. L. Walker, Conestoga and Girard avenue, Philadelphia. Brick, 1 story, 17x30 feet, slag roof, pine floors, flush bulks (heating and electric work reserved). Contract awarded to J. D. Fisher, 5414 Thompson street, Philadelphia.

Office and Storage (alts. and add.), 1210 South Fourth street, Philadelphia, $6,000. Architect, private plans. Owner, Philadelphia Contributionship, 212 South Fourth street, Philadelphia. Brick, 1 story, 10x14 feet, carpentry, mill work, painting, glazing. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

Residence, Southwest Corner Third and Winton streets, Philadelphia, $5,000. Architect, private plans. Owner, James Devine, on premises. Brick, 2 stories, 16x60 feet, slag roof, hot water heating, electric lighting. Contract awarded to H. D. Prettyman, 2603 South Broad street.

Store and Dwelling (alts.), Southeast Corner Forty-fifth and Spruce streets, $8,000. Architect, private plans. Owner, Robert G. Reynolds, on premises. General alterations, plumbing, electric lighting, new partition, plastering, painting, hardwood floors. Contract awarded to Curtis Grindrod Co., Franklin Building, Philadelphia.

Dwelling (alts. and add.), 1514 Green st., Philadelphia, $12,000. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, Mrs. C. M. Hurlinger, on premises. Brick, 2 stories, 14x16 feet and 12x18 feet, slag roof, electric lighting. Contract awarded to Wm. Kelley, Fifteenth and Montgomery avenue, Philadelphia.

Tenement House (alts. and add.), 2526 Diamond street, Philadelphia, $7,000. Architect, private plans. Owner, Joseph Caldwell, on premises. Brick, 3 story addition, 16x10 feet, electric lighting, plumbing. Contract awarded to D. C. Moyer & Co., 2344 North Carlisle street, Philadelphia.

Store and Dwelling (alts.), southwest corner Front and Dauphin streets, $9,000. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, J. Diamond, 714 South street, Philadelphia. Marble work, composition floors, metal ceiling, metal lath, plumbing, carpentry, millwork. Contract awarded to Birkelback & Co., 4608 Richmond street, Philadelphia.

Factory (fire repairs), 848-50 South Swanson street, Philadelphia, $4,372. Architect, private plans. Owners, Philadelphia Grease Co., on premises. Carpentry and millwork. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Dwelling (add.), 6438 Woodbine avenue, Philadelphia, $4,000. Architect, Walter F. Price, 136 South Fourth street, Philadelphia. Owner, John S. Gustine, Jr., on premises. Stone, 2½ stories, 18x10½ feet, shingle roof, electric lighting, oak floors. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Boiler House, Lawrence street, South of Pike street, Philadelphia, $6,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner, John Freiderich, Fifth

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and Rising Sun Lane, Philadelphia. Brick, 1 story, 15x65½ feet, concrete surfaced roof, electric lighting, cement floors, steel sash, iron stairs, steel work, skylights. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Garage, 1838-40 Cabot street, Philadelphia, $3,500. Architect, private plans. Owner, Matthew M. Collings, on premises. Brick, 1 story, 30x40 feet, slag roof, steam heat, electric lighting, cement floors. Contract awarded to Carr & Courtenay, 43 South Seventeenth street, Philadelphia.

Hospital (alts. and add.), Twentieth and Susquehanna avenue, Philadelphia, $6,000. Architect, private plans. Owners, Women's Homeopathic Hospital, on premises. Brick, 2 stories, 12x12 feet, slag roof, stone foundations, electric lighting, marble and terrazzo floors, heating extension, iron work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Synagogue, 2509 South Fourth street, Philadelphia, $20,000. Architect, private plans. Owner, The Dorin Loun Congregation, care of builder. Brick, 2 stories, 30x55 feet, slag roof, pine floors, electric lighting. Contract awarded to Mark Haller, 2123 South Fourth street, Philadelphia.

College Building (Logan Hall) (rebuilding), Thirty-sixth and Woodland avenue. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, University of Pennsylvania, Thirty-fourth and Chestnut streets, Philadelphia. Plastering, carpentry, painting, composite floors, mill work, plumbing, slag roof, tile work, hollow metal sash, copper skylights. Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Synagogue, Broad and Courtland streets, Philadelphia. Architect, J. E. Fieldstein, Penfield Building, Philadelphia. Owner, Beth Shalom Cong., care of architect. Brick, terra cotta, 1 story, 100x75 feet, stone foundations, slag roof, steam heat, electric lighting. Contract awarded to B. Bornstein, 1512 North Franklin street, Philadelphia.

Residence (alts.), 4845 Pulaski avenue, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Lionel Freidman, care of architects. Brick, add. 19x5 feet, stone foundations, electric lighting, hardwood floors, mill work, plastering. Contract awarded to John E. Spitz, 243 North Eleventh street, Philadelphia.

Offices (alts. and add.), Third street, South of Chestnut street, $25,000. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, Girard National Bank, on premises. Concrete and steel, 1 story, 17x40 feet, slag roof, steam heating, electric lighting, maple floors, mezzanine floor. Contract awarded to William J. Gruhler & Co., 219 High street, Philadelphia.

Boiler House (add.), Ridge avenue, North of Calumet street, $3,000. Architect, private plans. Owners, Powers, Weightman & Rosengarten, 916 Parrish street, Philadelphia. Brick, 1 story, 17x13 feet and 8x51 feet. Contract awarded to R. Cain, 916 Parrish street, Philadelphia.

Bank (add.), 1512 Chestnut street, Philadelphia, $3,000. Architect, private plans. Owners, Rittenhouse Trust Co., on premises. Brick, third story add. 20x22 feet, slag roof, heating and electric lighting extensions, pine floors. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Factory (alts.), Northeast Corner Lehigh avenue and Hancock street, $3,900. Architect, private plans. Owners, Star & Crescent Co., on premises. General interior alterations. Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

Hospital (alts.), Northeast Corner Eighteenth and Cherry streets, $4,350. Architect, private plans. Owners, care of University of Pennsylvania, Thirty-fourth and Spruce

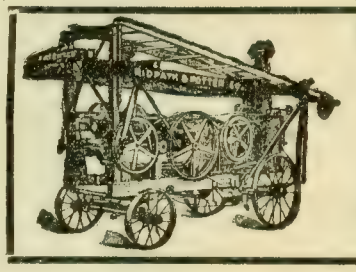


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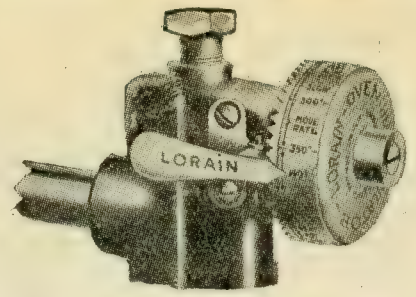


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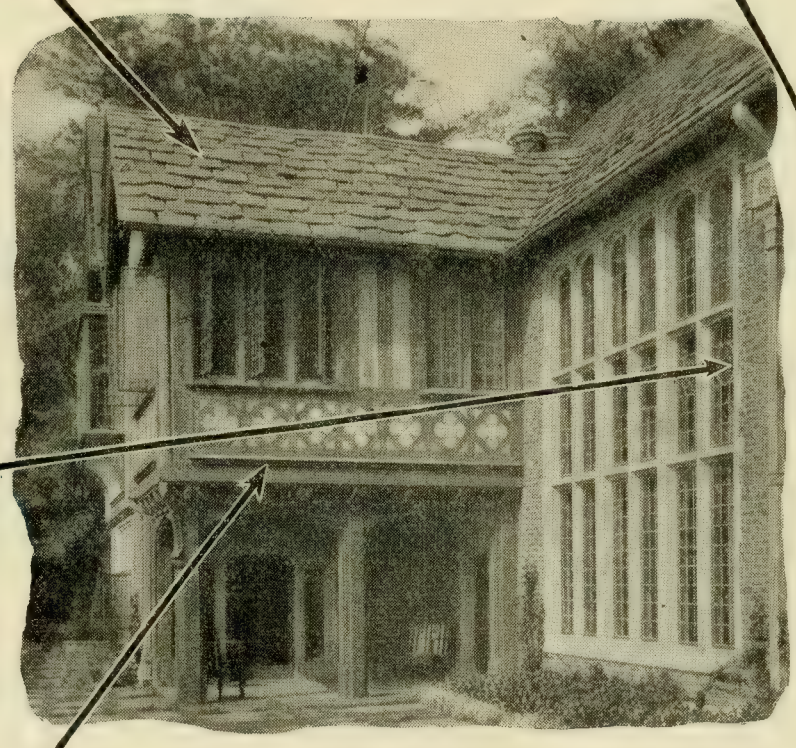
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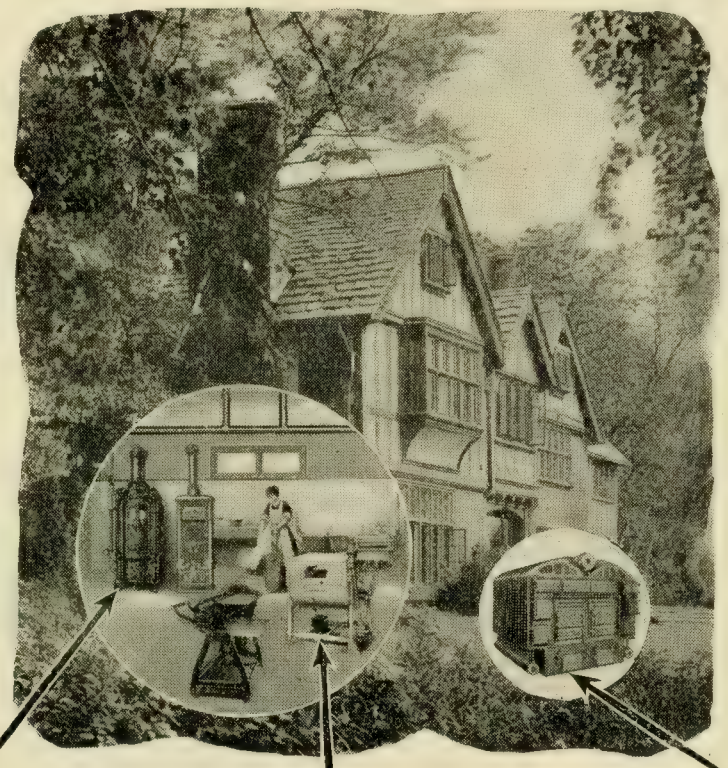
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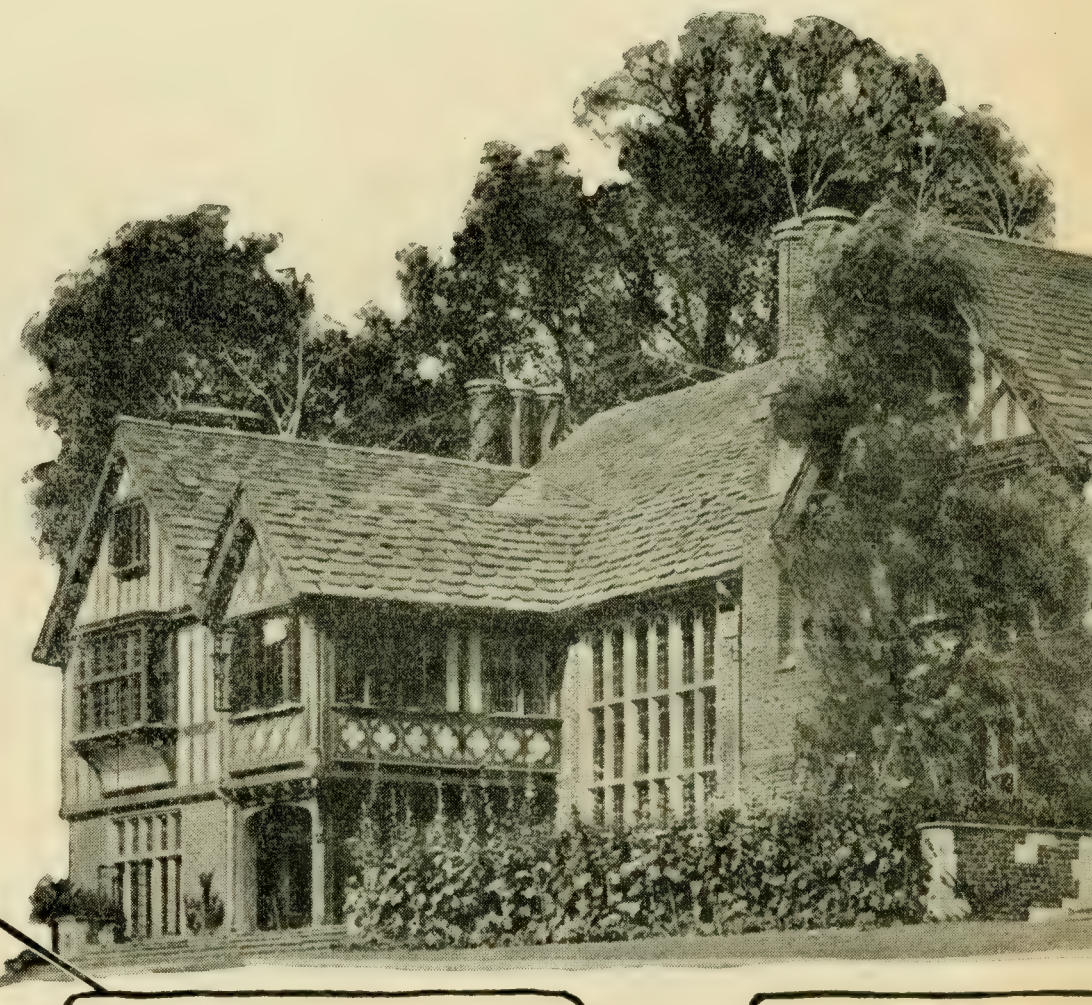
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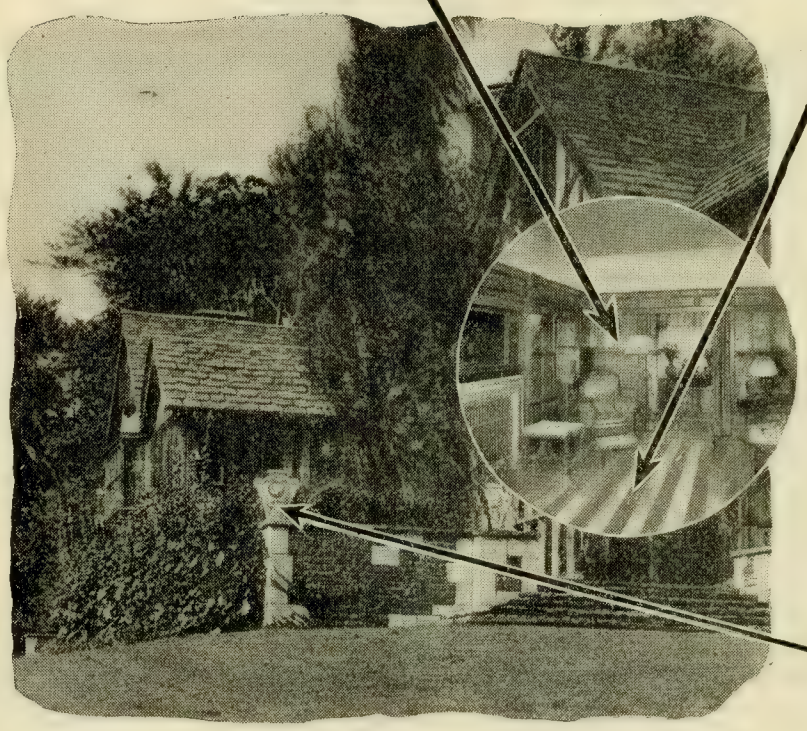
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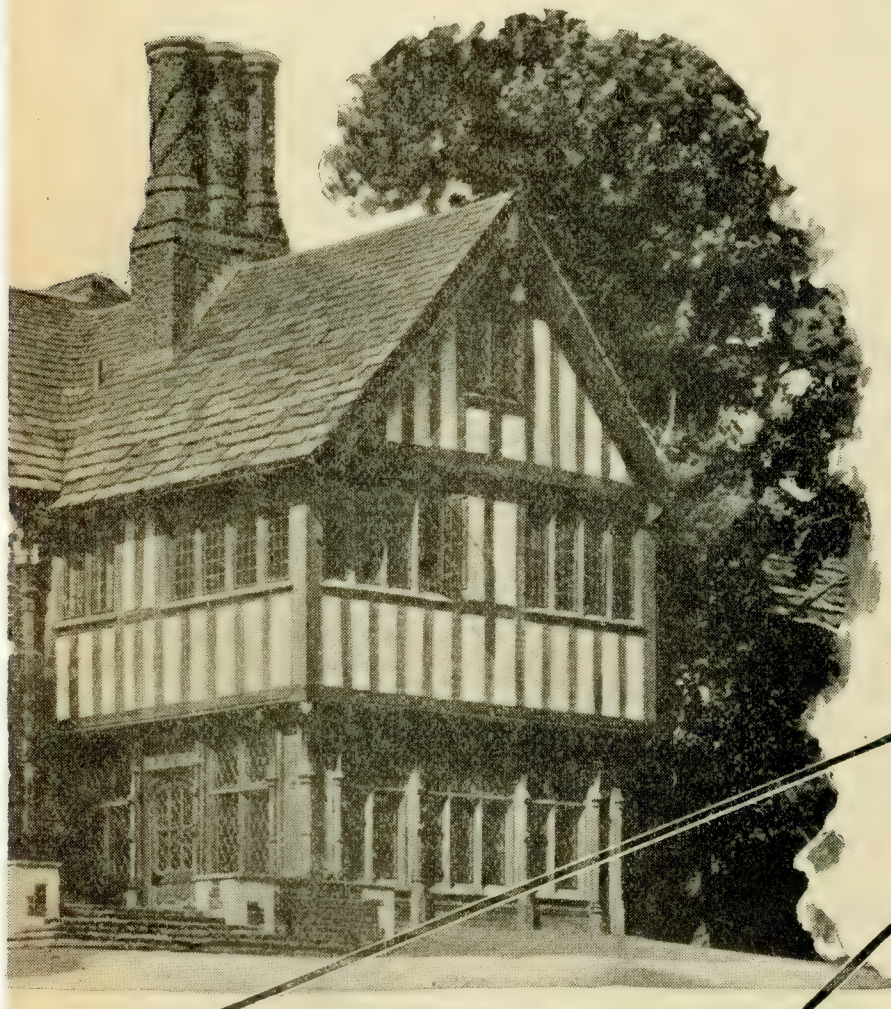


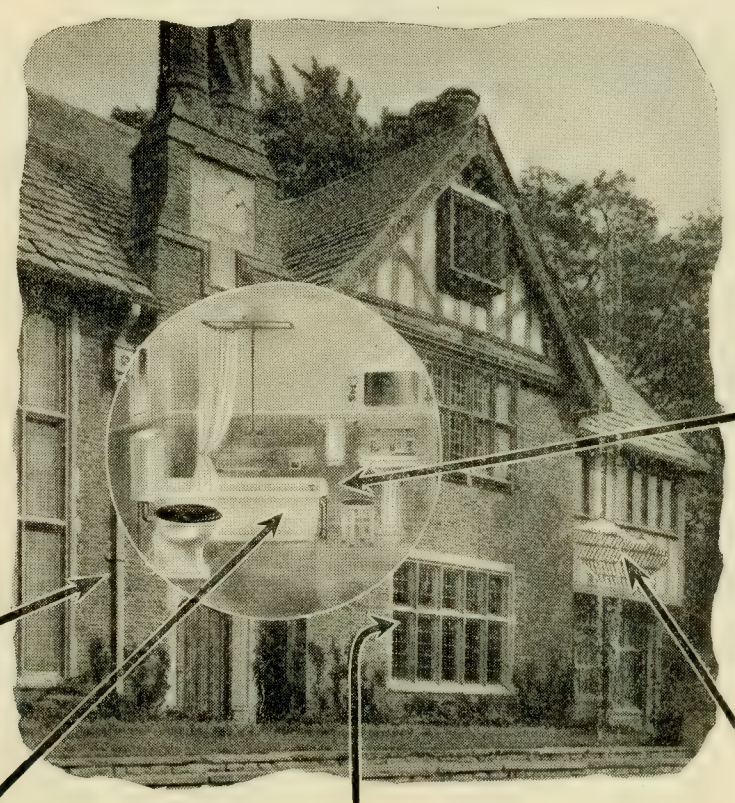


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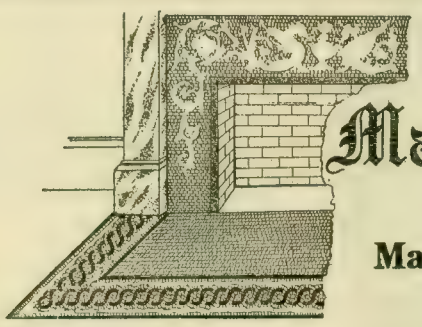
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streets, Philadelphia. General alterations and heating. Contract awarded to A. MacTavish, 1515 Pine street, Philadelphia.

Residence (alts.), 123 Pelham road, Germantown, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owner, David C. Macneill, Bourse Building, Philadelphia. General interior alterations. Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

Residences (alts.) to Office Building, 1916-18 Race street, $10,000. Architect, private plans. Owner, M. W. Friedel, Franklin Trust Building, Philadelphia. General alterations. Contract awarded to R. B. Douglass, 330 North Sixty-third street, Philadelphia.

Pennsylvania Construction News

Residence and Garage (alts. and add.), Merion, Pa. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owner, J. H. Grossman, Merion, Pa. Frame, 2 stories, 12x18 feet and 30x26 feet, shingle roof, pine and cement floors, tile work, stone foundations, plumbing. Architects have received bids.

Residence (alts.), Jenkintown, Pa. Architects, Tilden & Register, Franklin Bank Building, Philadelphia. Owner, H. Morris Harrison, Jenkintown, Pa. Mill work, electric work, hot water heating, painting, tile work, plumbing. Architects have received bids.

Residence (alts.) to Apartments, Oakmont, Pa. Architects, Tunis & Genther, Real Estate Trust Building, Philadelphia. Owner, D. F. Ryan, 5916 Market street, Philadelphia. Hollow tile and plaster, 3 stories, new partitions, plastering, mill work, tile work, general alterations. Owner will build.

Store Building, Uniontown, Pa. Architects, Albert Kahn, Detroit, Mich., and Harry W. Altman, Uniontown, Pa. Owners, Aaron's Furniture Co., Uniontown, Pa. Brick, concrete and steel, 8 stories, 76x55 feet, composition roof, cement, maple, tile, marble and terrazzo floors, hollow tile, metal laths, safety treads, metal window guards, waterproofing, dampproofing, iron work and stairs, hollow metal doors, stone foundations (plumbing, heating, electric lighting and elevators reserved). Architects taking bids due June 20th. Warren-Moore Co., Colonial Trust Building, is figuring.

Ward Buidling (N.), Farview, Wayne County, Pa. Architects, Charles H. Hillman & Son, 400 Chestnut street, Philadelphia. Owner, State Hospital for Criminal Insane, Farview, Pa. Steel, terra cotta, concrete and brick, 2½ stories, 75x41 feet, shingle roof, cement, tile and maple floors, stone foundations, steam heating, electric lighting, tile and marble work, plumbing, mill work. Architects are taking revised sub-bids.

Stable (alts.), Glenside, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, W. W. Harrison, Glenside, Pa. Lumber and carpentry, mill work, plastering, electric work, repairs to heating, plumbing, painting, glazing, hardware. Architect has received bids.

Hospital (alts. and add.), Chambersburg, Pa. Architects, Furness Evans & Co., Franklin Bank Building, Philadelphia. Owners, Chambersburg Hospital, Chambersburg, Pa. Brick, 3 stories, general alterations and additions. Preliminary plans in progress.

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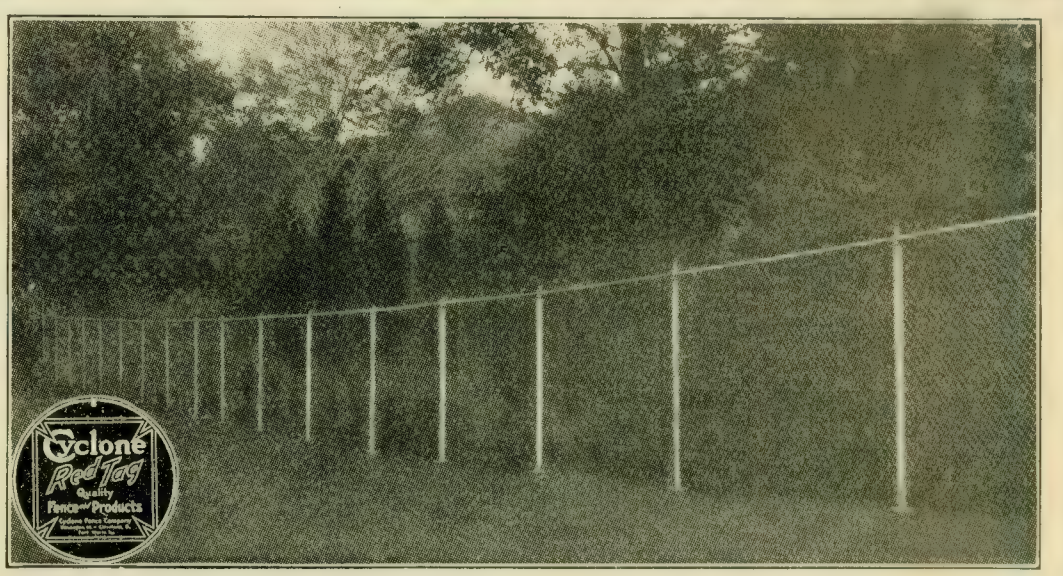
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Fourth street, Chester, Pa. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owner, St. Daniel's Methodist Episcopal Church, care of Rev. J. L. Hughes, 1431 West Third street, Chester, Pa. Brick. Preliminary plans in progress. Too early for details.

Church (alts. and add.), near Fourth and Edward streets, Chester, Pa. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owner, St. Daniel's Methodist Episcopal Church, care of Rev. J. L. Hughes, 1421 West Third street, Chester, Pa. Brick, 2 story, 20x50 feet, shingle roof, steam heating, electric lighting, plastering. Plans in progress. Will be ready for bids in one month.

Residence (alts. and add.), Yeadon, Pa. Architect, Jesse T. Hoekstra, 1713 Sansom street, Philadelphia. Owner, S. L. Brumbaugh, 1429 Walnut street, Philadelphia. Stone and frame, 2 stories, 21x27 feet, shingle roof, pine floors, steam heating, electric lighting, tile work, plumbing. Will be ready for bids in two weeks.

Residence (alts. and add.), Haverford, Pa. Architect, H. Brognard Okie, Crozer Building, Philadelphia. Owner, J. S. Vauclain, Haverford, Pa. Stone, 2½ stories add., 25x30 feet, slate roof, oak floors, stone foundations, hot water heating, electric lighting, general interior alterations. Architect has received bids.

Lodge Building, Summitt avenue and Leedom street, Jenkintown, Pa. Architect, Charles M. Pierson, 723 Wingohocking street, Philadelphia. Owner, Jenkintown Lodge of I. O. O. F., Jenkintown, Pa., care of J. W. Pickwell, care of Pickwell & Co., Jenkintown, Pa. Stone and steel, 2 stories, 139x62 feet, Carey and cement roof, mineral pine tile, marble and terrazzo floors, metal lath, roof ventilators, iron work, electric lighting, vapor vacuum heating. Owners taking bids due June 20th. Specht & Sperry, Heed Building; E. Allen Reeves, Abington, Pa.; W. John Stevens, Inc., Wyncote, Pa., and Frank W. Carman, Jenkintown, are figuring.

Residence (alts. and add.), Haverford, Pa. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owner, R. P. McNeely, Haverford, Pa. Brick and plaster, 2½ stories, 18x9 feet, wing 12x6 feet, slate roof, pine and oak floors, electric lighting, tile and marble work, hot water heating, stone foundations. Architects taking bids due June 23rd. H. H. Burrell, 206 South Quince street; F. E. Wallace, 1220 Chancellor street; Gray Brothers, Rosemont, Pa.; George L. Croll, Radnor, Pa., and James Duffy, Wayne, Pa., are figuring.

Residence and Garage, Elkins Park, Pa. Architect, J. Harry Parker, 129 South Fifth street, Philadelphia. Owner, Russell Spruance, 135 South Second street, Philadelphia. Frame and stucco, 2½ stories, 51x30 feet, slate roof, pine floors, electric light, iron work, stone foundations (plumbing, tile work, heating and hardwood floors reserved). Will take revised bids in a few days.

Buildings, Valley Forge, Pa. Architect, M. Medary, Jr., Otis Building, Philadelphia. Owners, Valley Forge Historical Society, care of Dr. W. H. Burk, 1416 Spruce street, Philadelphia. Architect selected. Work contemplated.

New East Wing, State Capitol, Harrisburg, Pa. Architect, Francis H. Bent, Trenton, N. J. Owners, State of New Jersey, care of State Architect. Concrete, brick and steel, 3 stories, 243x52 feet, slag roof, tile, block, cement, composition and terrazzo floors, metal lath, dampproofing, stone foundations, tile and marble work, rolled steel and hollow metal sash and doors, iron stairs and work. Architect taking bids, due June 22nd. Standard Const. Co., 1713 Sansom street, Philadelphia, is figuring.

Church, Hershey, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, R. C. Church, care of Rev. P. J. Phelan, Cathedral, Harrisburg, Pa. Frame, 1 story, 78x36 feet, slate roof, stone foundations, pipeless heater, electric lighting. Plans completed. Architect ready for bids.

Church (add.) and Manse, Drexel Hill, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Presbyterian Church of Drexel Hill, care of Frank Reeves, Building Committee, Drexel Hill, Pa. Stone and half timber, 2½ stories, 28x50 feet. Church, one-story addition, 60x100 feet, slate roof, hardwood floors, stone foundations, electric lighting. Architects taking bids, due June 23rd at 4 P. M. J. Howard Roberts, Lansdowne, Pa.; Thomas C. Trafford, 1613 Sansom street; Pomeroy Const. Co., 1609 Ranstead street; Bowden Const. Co., 1716 Sansom street, and Thomas Reilly, 1616 Thompson street, are figuring.

Pennsylvania Contracts Awarded

Stable and Garage (alts.) to Boy Scout House, Merion, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Boy Scouts of America,

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Merion, Pa. Carpentry, mill work, painting, glazing, electric work, metal lath, plastering. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Residence (alts. and add.), Merion avenue near P. R. R. Station, Merion, Pa., $75,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, John H. Weaver, Land Title Building, Philadelphia. General remodeling of present structure, stuccoed and marble veneer, 3 stories, 100x60 feet, slate roof, oak floors, hot water heating, electric lighting, tile and marble work, sun parlor, plumbing. Contract awarded to Milton W. Young, Overbrook, Pa.

New Jersey Construction News

Quarters, Shop and Power Plant Buildings, Spec. 4082, Lakehurst, N. J. Architect, private plans. Owner, United States Government, Bureau of Yards and Docks, Navy Department, Washington, D. C. Brick, steel and stucco, officers' quarters (3), 41x24 feet, 2 stories, bachelor's quarters, 72x31 feet, wing 35x18 feet, 2 stories, auxiliary shop, 1 story, 123x102 feet, power house, 1 story, 111x50 feet, built-up roof, concrete and pine floors, hollow tile, metal lath, roof ventilators, dampproofing, iron work and stairs, steel doors, copper skylights, rolled steel sash, tile work, electric lighting, steam heating, stone foundations. Owners taking bids due June 21st. Hughes-Foulkrod Co., Commonwealth Building; Irwin & Leighton, 120 North Twelfth street, and William R. Dougherty, 1610 Sansom street, are figuring. Deposit of $30.00 required.

Store and Apartments (add.), Williamstown, N. J. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owner, Mrs. Henry Curtis, Williamstown, N. J. Frame and stucco, second and third story add., 22x74 feet, shingle roof, hot water heating. Owner is taking bids.

Bank (alts.), Southeast Corner Third and Market streets, Camden, N. J. Architect, Philip Merz, Pennsylvania Building, Philadelphia. Owner, West Jersey Trust Co., F. Patterson, president, on premises. General interior and exterior alterations. Plans in progress.

Schools (2) (add.), Nos. 2 and 3, Audubon, N. J. Architects, John H. Mowere and David C. Lange, Audubon, N. J. Owners, Board of Education, Borough of Audubon, Camden County, care of George N. Hoffman, Clerk, Audubon, N. J. Brick and stone, 2 and 3 stories (heating, plumbing, electric work and ventilating, separate bids). Owners taking bids due July 6th at 8 P. M. in School No. 1. Deposit of $20.00 required.

Buildings, Vineland, N. J. Architect, Francis H. Bont, Capitol Building, Trenton, N. J. Owner, State Institution for Feeble Minded Women, Vineland, N. J. Brick and steel, 2½ stories, 104x52 feet, slate roof, stone foundations, cement, marbleloid and tile floors, hollow tile, safety treads, metal ceilings, dampproofing, iron work, marble work, stone foundations (heating, electric lighting and plumbing reserved). Architect taking bids due June 22nd. Frank G. Stewart, 1619 Sansom street, Philadelphia, is figuring.

Apartment House, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, name withheld. Brick, 3 stories, 38x117 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors, stone foundations. Plans in progress. Architect will take bids in ten days.

Store Building (alts.), Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton, N. J. Owners, Nevins Bro. Co., Trenton, N. J. Carpentry, concrete and cement work, hollow tile, tile floors, marble work, metal lath, plastering, steel and iron work, pine floors, metal sash, fire doors, painting and glazing. Architect has received bids.

Apartments (alts.), Maryland avenue, Atlantic City, N. J. Architect, Bertram C. Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Arnold De Bier, Virginia avenue, Atlantic City, N. J. Interior alterations, tile work. Plans in progress. Owner will sub-let.

Store (alts. and add.), South Broad street, Trenton, N. J. Architect, Wm. Klemann, First National Bank Building, Trenton, N. J. Owner, J. Finkle, South Broad street, Trenton, N. J. Brick, 1 story, 9x34 feet, slag roof, pine floors, tile work, plate glass, interior alterations. Plans in progress.

Store (alts. and add.), North Broad street, Trenton, N. J. Architect, Wm. Klemann, First National Bank Building, Trenton, N. J. Owner, J. Epstein, American Mechanics' Bank Building, Trenton. Brick, 1 story, 22x24 feet, slag roof, pine floors, tile work, plate glass, rolled steel skylights, electric wiring. Plans in progress.

Reformatory, Clinton, N. J., $100,000. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, New Jersey Reformatory for Women, care of Miss G. Robson, on premises. Hollow tile and stucco, 102x40 feet, concrete foundations, slate roof, hardwood floors, electric lighting, tile work, simplex windows. Architect taking bids, due June 22nd. Standard Const. Co., 1713 Sansom st., Philadelphia; Carrol & Pullen, Princeton, N. J.; Carleton Co., Inc., 151 West Forty-second street, and Connors Bros., 15 West Ninety-

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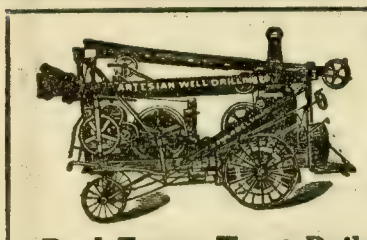
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first street, both of New York City, are figuring.

House for Feeble Minded, Vineland, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of Dr. Thorn, Vineland, N. J. Brick, 2½ stories, 105x50 feet, concrete foundations, slate roof, hardwood floors, electric lighting, tile work, roof ventilators. Architect taking bids, due June 22nd. F. G. Stewart, 1619 Sansom street; Graham & Wells, 3649 Filbert street; Standard Const. Co., 1713 Sansom street; Metzger & Fisher, Otis Building, all of Philadelphia; George W. Shaner & Son, Palmyra, N. J., and A. Pasqualle, Vineland, N. J., are figuring.

Warehouse, State street, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Contract for excavation awarded to James McGraw Co., Commercial Trust Building, Philadelphia. Plans for superstructure in progress.

Club House (alts. and add.), 315 Cooper street, Camden, N. J. Architect, Walter W. Sharpley, 1713 Sansom street, Philadelphia. Owner, Camden Club, care of Charles K. Haddon, care of Victor Talking Machine Co., Camden, N. J. Brick and stone, 3 stories, 25x100 feet. Architect taking bids, due June 21st at noon. George Bachmann, 19 North Thirtieth street; J. W. Draper, 436 Haddon avenue, Camden, N. J., and Standard Const. Co., 1713 Sansom street, and J. S. Rogers Co., Drexel Building, Philadelphia, are figuring.

New Jersey Contracts Awarded

Horticultural Building, New Brunswick, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of architect. Brick and concrete, 2½ stories and basement, 136x68 feet, slate roof, reinforced concrete floors, steam heat, electric light, tile and marble work, hollow metal skylights. Contract awarded to George Dose, 42 West Twenty-seventh street, New York.

Septic Tank, Vineland, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of architect. Reinforced concrete, 12 feet high, 45x52 feet, new sewerage, cast iron and terra cotta work. Contract awarded to George L. Robinson, 37-39 East Twenty-eighth street, New York City.

Laundry, Girls' Home, Trenton, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of architect. Brick, 1 story, 81x43 feet, concrete foundations, slate roof, cement floors, steam heat, electric light, roof ventilators, wood tresses. Contract awarded to C. Y. Barlow, Trenton, N. J.

Foundry, Fair street, Trenton, N. J. Architect, J. O. Hunt, Montgomery street, Trenton, N. J. Owners, J. E. Thropp, Inc., Trenton, N. J. Steel and brick, 73x161 feet, concrete foundations, slag roof, concrete floors. Contract awarded to Austin Co., Trenton, N. J.

Residences (8), Greenwood avenue, Trenton, N. J., $32,000. Architect, private plans. Owners, Home Crafters, Inc., Trenton, N. J. Brick, 2½ stories, 14x34 feet, slate roof, pine floors. Contract awarded to Burton & Burton, Trenton, N. J.

Rectory, Pennsgrove, N. J. Architect, Geo. I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. James' R. C. Church, care of Rev. H. L. Massey, Pennsgrove, N. J. Stone and stucco, 3 stories, 30x60 feet, slate roof, stone foundations, hardwood floors and pine floors, electric lighting, tile and marble work. Contract awarded to John E. Healy, Wilmington, Del.

Miscellaneous Construction News

Theatre, Store and Apartments, 1300 Block, Pennsylvania avenue, Baltimore, Md. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Douglas Amusement Co., care of architects. Brick, concrete and steel, 4 stories, 100x175 feet, composition or slag roof, steam heating. Plans in progress. Will be ready for bids in about two weeks.

Church, Government Reservation, New Mexico. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Catholic Church of Pularosa, New Mexico. Stone, 1 story, 60x140 feet, slate roof, hot air heat, stone foundations, electric lighting. Plans in progress. Owners will build.

Church, Buffalo, N. Y. Architect, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Central Park Methodist Church, care of Dr. Drake Skinner, Buffalo, N. Y. Stone, 2 stories, slate roof. Plans in progress.

Temple (alts.), 1914 Madison avenue, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Madison Avenue Temple, on premises. General remodeling of basement for asembly room, stage and dressing rooms, general alterations. Plans in progress.

Store Building (remodeling), Third and Washington streets, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Levenson & Klein, on premises. General alterations to entire building. Architect taking bids, due June 24th. Henry M. Maas, Baltimore, Md., is figuring.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 9, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 21, 1920, in lieu of at 3 P. M., June 14, 1920, as previously advertised, for the mechanical equipment of the main hospital building, transformer building, gas house, and extension to boiler house of the United States Public Health Service Hospital at Sewell's Point, Norfolk, Va. Drawings and specifications may be obtained from the Medical Officer in Charge, United States Public Health Service, Custom House, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 21, 1920, for furnishing certain materials for the construction of the main hospital, transformer building, gas house, and an extension to the present boiler house for the United States Public Health Service Hospital at Sewell's Point (Norfolk), Va., including reinforcing metal, structural tile, gypsum blocks, miscellaneous iron work, sheet metal work, hollow steel doors, interior marble and slate, mill work, fly screens, linen

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chutes, hardware, plumbing, heating, electric work, etc., in accordance with drawings and specifications, copies of which may be obtained from the Medical Officer in Charge, United States Public Health Service, Custom House, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1920. Sealed Proposals will be opened in this office at 3 P. M., June 21, 1920, for furnishing the necessary labor and materials for the composition roofing, stucco work, and cork insulation required in the construction of the main hospital, transformer building, gas house, and an extension to the present boiler house for the United States Public Health Service Hospital at Sewell's Point (Norfolk), Va., in accordance with drawings and specifications, copies of which may be obtained from the Medical Officer in Charge, United States Public Health Service, Custom House, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

WHERE PROFITS ARE LOST

(Continued from Page 556.)

"The failure of an engineer to disapprove in writing of any work claimed to be defective, as soon as the alleged defects are discovered or in the exercise of reasonable diligence shall be discovered by him, shall be deemed an acceptance of the work in question."

This is the rule which would be applied in court were it not for the contrary controlling provision of the contract.

Extra Work

Here is another very common provision, and in substance, a necessary provision:

The engineer may * * * * order extra work to be done or make any changes he may deem expedient * * * * and may furnish other plans. * * * * All such extras and changes must be directed by the engineer in writing, who shall fix the amount by which the cost of the work is increased or diminished. * * * Claims must be made monthly and * * * * shall only be allowed when the engineer has in writing authorized same and stated the prices to be paid therefor.

In substance, that is a necessary provision. It is the result of experience, but knowing that the legal profession is very fallible and that all of the inferior professions must be fallible, I think it is altogether too much power to grant the engineer. "He may furnish other plans"; he may change the whole scheme of the work, change the location, and absolutely disorganize the plans of the contractor. He may do it at any time after you have your outfit placed and after your work is started, and those provisions are the only covenant; and the other clause denies you any recovery for any loss of anticipated profits by reason of any such change.

I do not think the engineer ought to have a right so to change the plans that the entire nature of the work, from the contractor's standpoint, is changed. The contractor should have a right to elect—"I will go on with the work and perform the contract under your price, or I am through. You will pay me for my expense and loss of time." I think that would be a reasonable way to take care of a situation of that kind.

It is understood that in the event an engineer orders changes and extra work, the price fixed by the engineer must be a reasonable price. I think the contract ought to be so worded as to protect the contractor as to that phase of the question.

Now, to illustrate just what happens when two engineers fix the price. I was out on a trip recently, in connection with a project under construction, and the engineer for the public fixed the price of raising a piece of industrial track just a few hundred feet at $5,000, and the engineer for the railroad company fixed the price at $12,000. In a situation of that kind the contractor ought to be protected and it ought to be left for him to say whether he will go ahead or quit, and if he elects to quit, he ought to be paid for what he has already done.

The Weakness of Waiving Contract Provisions

If you are bound by such a contract you have a right, in case of any such change, to get that amount fixed in writing before you proceed. Some time I hope to find the case of a contract where a contractor who, when such provisions are in the contract, will insist on having in writing that which he is entitled to have in writing. So far such cases have been very few and far between. You have relied on the good faith of the engineer, but the trouble is, despite the best efforts of the engineer, despite his honesty, notwithstanding your own good faith, and your own constant efforts to complete your contract, you may get into court. That contract comes to a lawyer; he picks it up; he is there to protect the rights of his client, and his client may be the owner. The owner has the right under such a provision, before becoming bound by any charge for extras, to have it fixed in writing. The lawyer says at once, "Why, you are not liable for this. The matter was not determined by written decision of the engineer before he went ahead with the work."

There can be no recourse. What is the alternative for the contractor? This may represent the entire profit on the job, and that item may be the difference between future prosperity and temporary ruin—financial embarrassment. He can prove—he may attempt to prove—that that and other provisions of the contract have been waived. You can get away with it, ordinarily, but it is a costly proceeding.

Judge Caldwell, long on the Circuit Court of this district (St. Paul), once said in an insurance case: "Give me a policy and a fire and I will do the rest." Given provisions of this kind, given extra work, and ordinarily, the jury can be relied upon to do the rest.

When you are entitled to have anything in writing be sure that you get it, and get it when you are entitled to it. It is an easy thing to overlook in the rush and press of work, but remember that the work is being done under a contract binding upon yourself, under written language which will be interpreted in the end by somebody other than you and the other contracting party who adopted it, so check yourself up as you go along with the work and get that to which you are entitled.

Who Hires and Fires Your Foreman?

Another provision happens to accompany this:

"The contractor shall keep a competent foreman * * * * to be engaged and retained only with the approval of the engineer."

I do not think such a provision ought to be allowed in any contract because they are generally provisions which protect the owner. To give the engineer, in the ordinary case, power to discharge your foreman and select another one for you is taking the work out of your hands to such an extent as none wants to consent to in advance.

When Extra Work Is Done for Nothing

Here is another one along the lines of extra work. I said I was not going to

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criticize these provisions, but just give you the facts concerning them. One reason I am not going to criticize some of them is, I am trying to avoid profanity these days.

"All claims for extra work or material must be presented to the engineer for allowance at the end of the month."

So far so good. The owner has a right to demand that. The engineer is entitled to it. It is a matter of fair dealing between man and man.

* * * * in which the same shall have been done or furnished, and shall, if allowed by the engineer, be included in the estimate for that amount; otherwise all claim therefor shall be deemed to be absolutely waived by the contractor.

In other words, mere omission by your superintendent may cause you a loss beyond the power of your engineer to rectify, because your engineer cannot change this contract. If the engineer wants to put that in the estimate a couple of months hence, he will have trouble doing it against the efforts of the lawyer and the court, if the matter finally gets into court. Again, of course, you have the recourse of the waiver of provisions of that kind, but it is a dangerous recourse. It is an attempt to cure where prevention should have been used.

And right along this same line, read this:

"Every allowance * * * * shall be embraced in * * * * monthly estimates; but should the contractor have a claim which he considers is not included in any progress certificate, it will be necessary for him to make such claim in writing to the engineer within thirty days. * * * *"

That is fair enough, but read this:

"Unless such claims are thus made and are repeated in writing every month until finally adjusted or rejected, the contractor shall have no recourse against the company."

How many contractors have signed that contract? It has been very common. No owner's or company's protective provision is more common.

When Delay May Be Costly

Study this:

"The only recourse of the contractor in case of delay caused by the company in an extension of time for a period equal to the delay, and the right of the contractor to such extension shall be deemed to have been waived unless a claim therefor, stating the occasion and nature thereof, shall be made by him in writing, delivered to the company at the time of such stoppage or delay."

Another:

"If there be any delay in the work, upon the written directions of the company, or by reason of any cause for which the company is held responsible, the contractor shall have no claim for damage by reason of such delay, but the time specified for completing the work shall be extended for a period of time equal to the time of such stoppage or delay."

Notice the requirements, not originally, but as the work proceeds along:

"The contractor shall be at the risk of, and shall bear, all loss or damage whatsoever, and howsoever arising, which may occur to the work, until the same has been accepted by the company, and all damage occurring before acceptance shall be made good by the contractor."

That is, if you complete a piece of grade or any other work, although it is done so far as you are concerned, and the company delays you, causing you to lay up during the winter season, during the season of heavy rains, during the season of the greatest activity of disintegrating frost in the spring, through no fault of your own, the engineer has the right and it is his duty under that contract, to make you go back and do the finishing work over again, a very, very costly proceeding in some cases. Under such a provision an engineer by wilfully delaying acceptance of the work, may impose upon * * * * the contractor, not only a risk of damage, but a very, very certain conclusion that you are going to be damaged to an extent far beyond your profits.

This Clause Puts Lien on Entire Outfit

Here is a provision that is unusual, with which you may disagree, because you may have seen it more than I have:

"All machinery and plant provided for the work shall * * * * become and, until completion of the work, remain, the property of the company, for the purpose of said work, and shall not be removed or be disposed of other than for said work, without the consent in writing of the engineer. Provided, however that upon completion of the work and upon payment by contractor of all moneys due from him to the company, such of the machinery, plant, and materials as shall not have been converted in the works and remain undisposed of, may be removed by the contractor, at his own expense."

In other words, the builder, in that case the owner, or company, makes you give him a lien upon your entire outfit for the security, first, of your execution of the work, and, second, for the security of any sum which you owe the company for the privilege of working for him. What is the effect of such a provision? I do not believe it is equitable. I do not believe that the sense of the contractors of the Northwest—I do not mean that as a question of the good sense of your combined judgment—is going to tolerate the continuation, if it is being used, of the use of that provision.

Getting the Contractor Going and Coming

And here is the supreme limit in the way of language of some general counsel somewhere—I won't tell where—I happen to remember the contract myself—in the way of inserting into a contract a provision unquestionably unfair, absolutely damnable in the injustice of the uses to which it may be put:

"Delivery to the company, if required, of a valid release of all claims in respect to matters connected with or arising out of this agreement; the furnishing of such certificate, evidence and release being a condition precedent to the right of the contractor to receive payment in respect of the final estimate."

In other words, if you get to the fighting point and want to sue on account of the work you have done, before you sue you have got to acknowledge receipt of payment of that work. That is what it amounts to, and that, more than anything, is a good illustration of the extent to which gentlemen of my profession, working for only one side of an interested group, as they should—for lawyers cannot serve two masters any better than anyone else—that is an illustration of the extent to which that system goes. The remedy is for these contracts to be drawn as other contracts are drawn, so as to represent the combined judgment of the owner on one side and the contractor on the other, as to what is fair concerning the work to be accomplished.

How to Obtain Fair Contracts

Hereafter, that sort of contract can be worked out by contractors. It is certainly within your power to compel the elimination from the contracts under which you must proceed, of any such provision as that. If that contract is drawn by one party, of course, it represents the interest of that party, whether he is the owner or the contractor, and the general conclusion, the general recommendation to which I want to call your attention, is that hereafter contractors owe it to themselves to see

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that the contracts under which they execute their works represent their ideas as well as those of the owner.—*Associated General Contractors of America.*

SOMETHING FOR THE QUANTITY MAN

Know Your Own Business and Likewise Some of the Other Fellow's

By Arthur Leslie Smith

How often has the writer heard these words. "I wonder what the architect means by this."

To begin with, how many quantity men are there that know their business and a little of the other fellow's, that is to know their line well enough to be able to interpret the plans and specifications, to be able to know what is wanted, even if it is not shown or called for.

For example, only a short time ago the writer was working on a set of plans, and among the other workers there was a "tile" man. When he got a chance he asked to be told how many floors there were to the building. It seems that the architect had only drawn basement, first and second floor plans, and showed on the elevations the building to be six stories high. Not knowing what to do this "tile" man asked the foregoing question. On looking at the second floor plan the writer found that the architect had lettered thereon the word "Typical," which solved the secret.

In a little while this same man was in trouble again. The specifications said that "all toilet rooms were to be tiled." The plans showed these rooms nicely marked with the words "Toilet room," but what troubled this man was that on one of the floors there was a room showing a basin, toilet and bath tub, but it was not marked. "What am I to do?" was again his question.

On another occasion a mill man listing off mill work was having his troubles. The specifications said that all exterior doors were to be made of oak and exterior windows of white pine. The plan showed openings from the living room to the veranda to be full length or to run to the floor. What worried this man was to decide whether these openings were exterior doors or casement windows.

And many similar "troubles" in all trades have come to the writer's notice.

Blaming the Other Fellow

The "boss" says that the quantity man does not know his business. The quantity man lays his troubles to the architect for not making "things clear." Who is to blame?

Of course we know the architect is getting paid to make a perfect set of plans. Does he do it?

And the quantity man is being paid to make a perfect list. Can he do it?

The quantity man knows that it is impossible to "come back" at the architect. Therefore, he must take the blame. But if he knew his business and a little of the other fellow's, there would be no blame to take; he would be in position to "talk back" to the architect and tell him what "ought to be."

Again we say, Mr. Quantity Man, know your own business, and likewise some of the other fellow's.—*Sheet Metal.*

CARE OF HARDWOOD DOORS AND TRIM

All woods are porous, and the drier and more thoroughly seasoned they are, the more readily they absorb moisture and are affected at atmospheric conditions. When unfinished hardwood doors and trim are placed in a damp room they quickly absorb the moisture in the air, which causes expansion or swelling, and when they return to normal (that is, when the moisture is again dried out) they are liable to warp and open at the joints, and it takes much time and labor to repair the damage. This can easily be avoided if only a little care is exercised.

In the first place, as soon as hardwood doors and trim are received, have a finisher give them one coat of filler, shellac or stain, as the case may require. The reason for this is that nearly all doors and trim are shipped "in the white," and all of the pores of the wood are open and ready to absorb moisture unless protected.

Do not hang doors or put on trim in a damp, freshly-plastered building. All hardwood finish should be back-painted with one heavy coat of asphaltum stain or lead and oil. This is to prevent absorption of moisture from the plaster. Mortar contains large quantities of water, and until the moisture is dried out of the walls the house is not in the right condition to receive hardwood doors, or any other fine woodwork which is quickly affected by such condition. Wood that is not back-painted is simply protected on one side and allows the moisture to come in on the other.

The manufacturer should not be censured nor the wood condemned if the product, upon which every care is exercised in the making, is not handled properly upon arrival at destination. Leading architects are specifying and insisting that heat first be turned on, so as to dry out the building thoroughly before hanging hardwood doors or putting on trim. If these hints and suggestions are carried out no trouble will be experienced. — *Red Gum Booklet — American Hardwood Mfrs. Asso.*

There have been many and varied solutions offered by men, big and little, widely known and obscure, for the so-called labor unrest. Also practically every organization, from Y huts to governmental departments, has given lengthy, wordy treatments to this subject. In fact, we are pretty well fed up on theories and solutions. Work is the best prescription of all—plain, honest, wholesome work. It is not only a sure cure for worry in the man who works, but if he will lay aside theories for a while and take up plain, honest work earnestly, most of the problems of the day will solve themselves, or rather will be solved thereby.

DON'T QUARREL WITH THE ARCHITECT

Mr. A. J. R. Curtis, of the Portland Cement Association, gave this advice to the Concrete Products Association members at their Convention in Chicago:

"Don't quarrel with an architect who wants to use your products and requires some special stunt with them. If he submits a design for a house and asks you to figure on it, say, 'Sure, we can figure it.' Demonstrate to him once and for all that your material is one that can be adapted to any design, any conditions; that it is a very flexible material to use—just as flexible as brick or frame. Don't let him think that your material is not as easy for him to use as those other materials. Adapt yourself as much as possible to what the architect asks for; put yourself in the position of the obliging storekeeper, who gives a man just what he wants and asks for, and doesn't try to give him an imitation that is just as good."—*Concrete.*

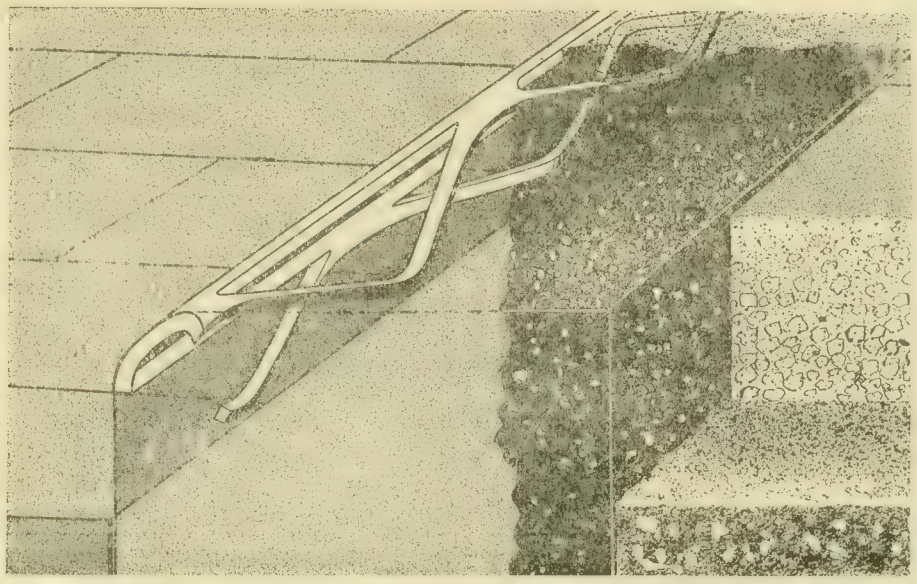
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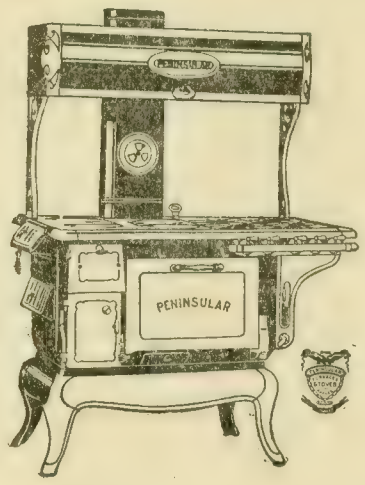
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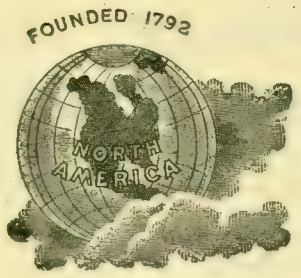
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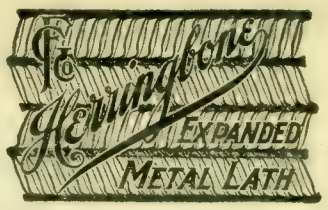
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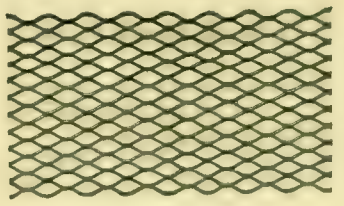
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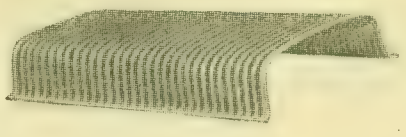
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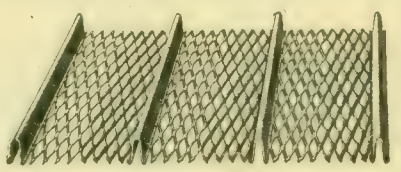
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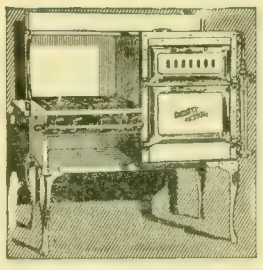
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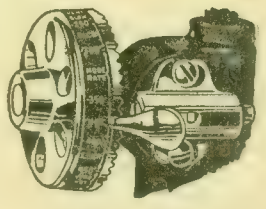
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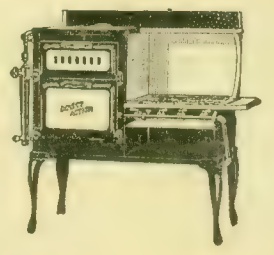


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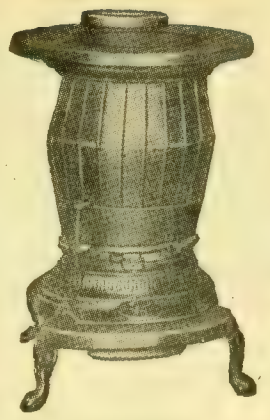
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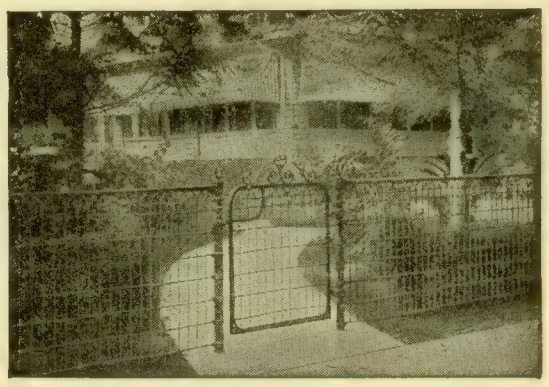
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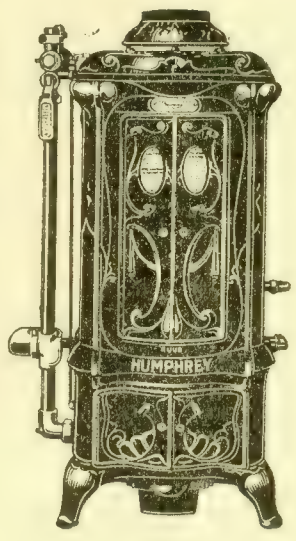
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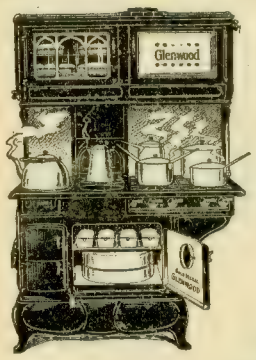
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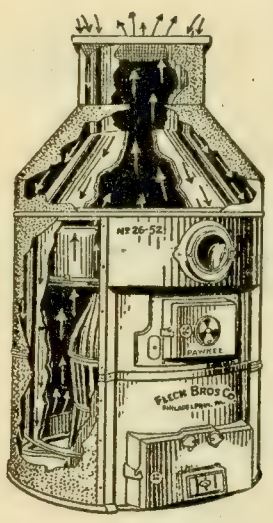


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BUILDERS' GUIDE

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Number 25

PHILADELPHIA
June 23, 1920

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As The Editor Sees It

THAT the lack of adequate transportation facilities is seriously affecting the construction industries is now a well established fact. In many cases concerns do not have goods to deliver and don't know when they will have.

According to a report by the Associated General Contractors of America, "the recent rulings of the Interstate Commerce Commission indicate that priorities are practically being established on account of the lack of transportation facilities. It is also evident that there will not be sufficient facilities to meet the full requirements of industry for some time to come and that some system of sharing the service must be devised. Under the present rulings, construction materials are forced to compete with luxuries and the least essential commodities for service. As a result coinstruction in many localities is practically at a standstill."

The Association is asking for data which will establish the right of construction materials to transportation subordinate only to food and fuel.

This fight is a step in the right direeection, and unless priorities for building materials can be secured, serious damage will be done construction and the public at large. Building is already so far behind that it needs every possible impetus for several years to come.

In a recent address by E. Guy Sutton, quoted from the *Bulletin of Associated General Contractors,* Mr. Sutton presents the salient feaures of the new rail act and describes their effect on construction:

"It will be my purpose," says Mr. Sutton, to express my views with reference to the traffic difficulties which confront the construction industry at the present time rather than review the transportation restrictions which it has suffered during the war period and since the signing of the armistice, except in so far as our more recent experience may bear upon the subject under discussion.

The railroads passed from Federal control to private operation on March 1, 1920. While this fact is universally known, yet apparently its full significance is not comprehended by the shippers, largely because the transition thus far has not been accompanied by any noticeable change or improvement in service. As a matter of fact, too much was expected by the return of the railroads to the owners.

Whatever opposition we may have to the principles of government ownership of the railroads, and with due recognition of the charge of inefficiency which has been made against many branches of the United States Railroad Administration, yet, in my opinion, it cannot be truthfully claimed that the fundamental reasons for the failure of the railroads to give adequate service during the term of Federal control was wholly the result of government operations. The chief causes for the collapse of the railroads under the stress of war conditions were, as I view them, as follows:

1. For several years previous to the war an unbalanced relation existing between transportation demands and transportation facilities, primarily because of the poor financial condition of the railroads. The exigencies of war and the after-effects thereof would not permit the building of new equipment to adjust this differential during Federal control.

2. The unified operation of the railroads was an unprecedented experience in American railroading and consequently necessitated the development of new and untried policies and methods. While the railroad owners and head officials were actually managing the railroads, yet, fearing that the properties might be retained if Federal operation were successful, naturally their viewpoint was prejudiced and consequently their efforts were not the most effective. Besides realizing that they had nothing to lose if the properties were permanently taken over by the government, the officials in charge devoted too much of their time and endeavors as the general public viewed it, to the establishment of rates and regulatory rules, which they hoped to perpetuate in the event that the properties did revert to private operation.

3. The dissatisfaction among railroad employees and the coal miners' strike were not due primarily to the fact of

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government ownership, or as is frequently alleged, to political influence, but rather to the general labor unrest that pervades the world.

Permit me to make it clear that I hold no brief for government ownership of the railroads, for I am unalterably opposed to it in principle and in practice. Nor is it my desire to unduly depreciate the work of the Uinited States Railroad Administration. The point which I desire to make at this juncture is, that the mere return of the railroads to private operation will not solve the immediate problem, because the previous conditions are not materially affected or changed.

1. There has been no appreciable increase in the number of cars or locomotives, or improvement in terminal facilities during the last five years, while the physical condition of the properties including road beds and equipment is worse than it was previous to the war. We cannot expect a marked improvement in this respect for several years to come, even if the railroads, on their own initiative or through orders of the Commission in the event that funds shall be made available for such purposes, should at once direct their attention to betterments and to the providing of additional equipment.

2. It will take at least six months for railroad officials to reverse the order and adjust themselves from Federal to private operation, and while organization is being brought out of disorganization we cannot hope for the highest degree of performance. During this transition period, unless there is a change of heart, we may expect an attempt to be made to discard some of the benefits of government operation that have accrued to the shippers and retain the features that are advantageous to the railroads.

3. Although the railroad Brotherhoods have ostensibly accepted the labor provisions of the Transportation Act of 1920, yet they have not done so wholeheartedly. Either continued inefficiently, or voluntary withdrawal from service by individuals or through strike methods, may be anticipated, at least after September 1, when reduction of wages of railroad employees will be permissible. Moreover, the disagreement between the miners and the coal operators has not been definitely adjusted, so that disruption of traffic may emanate again from this source.

The foregoing observations I will characterize as the physical and operating difficulties as they now appear and which will adversely effect the members of the construction industry, as well as all other classes of shippers, for an indefinite time.

In the main, the provisions of the recently enacted legislation mark progress in dealing with the railroad problem, yet there are features of the Esch-Cummins bill which are most likely to work particularly unfavorable to the shippers of materials for construction work.

In the first place, the Act sets forth a rule for rate-making whereby the Commission is directed to provide the carriers as a whole or in groups a fair return on the aggregate value of the property involved, which for the next two years is fixed at 5½ per cent., with a possible addition of ½ per cent. While there is no actual guarantee of 5½ per cent., nor direct transfer of earnings from one road to another, yet the intent of the provisions is so unmistakable that there is no question but that the Commission will authorize, if not initiate, rates that will assure the prescribed return. However, it is believed that the 5½ per cent., or even a 6 per cent. dividend, which may be more or less according to the ratio existing between the stocks and bonds and the established valuation of the properties, will not under present financial conditions be attractive to investors and, hence, new capital will not be forthcoming to provide funds for the immediate purchase of equipment. Then, too, because of the indirect guarantee and the small possible return, the incentive for enterprising and efficient management is nullified "mildly," if not wholly.

Though it may appear inconsistent to declare that a 5½ per cent. return will not bring the necessary financial assistance to the railroads, and in the next instance make the statement that the present freight rates applying on the basic building materials are already too high, yet such is the case. For instance: As a result of General Order No. 28 the rates on sand, gravel, crushed stone, and brick were raised on the average over 50 per cent. while practically all other commodities bore an increase of 25 per cent. The only plausible reason advanced for this discrimination in rates as between commodities was the desire to discourage building work during the war, when construction work was classed as non-essential.

In order to provide for a return of 5½ per cent. to the so-called weak roads, those which are improvident because of poor location and worse management, it is a foregone conclusion that a general advance in rates will be proposed without regard to conditions of operation or service performed unless, perchance, the strong roads absorb the weak ones. It is a well-known fact that construction work was during the war, and is now being curtailed on account of the prevailing high freight rates on indispensable materials for such purposes and that a further increase will prove most disastrous to the building of houses, highways, factories, and public structures, all of which are sorely needed. Moreover, the attempt on the part of the Commission to adjust rates so that they will not yield a much greater return than 5½ per cent. to 6 per cent. on the aggregate value of the railroads will tend to make rates unstable, which will render freight charges a factor of uncertainty that must be taken into account when contractors prepare bids for proposed work. And I will say further that factors of uncertainty are very expensive items.

Thus shippers and contractors may well conclude that the prospects are not favorable for obtaining better transportation service in the near future as a result of the financial plan of the recent Act, for it will not provide funds for purchasing new equipment, or for making improvements and extensions previous to the accumulation of excess earnings. Neither will it work towards a reduction in operating expense, nor yet remove the menace of exorbitant and changeable rates.

Fair and unprejudiced distribution of cars is one of the most important problems that confronts the construction industry today. Section 402, of the new railway legislation, reads in part as follows:

"It shall be the duty of every carrier by railroad subject to this act to furnish safe and adequate car service and to establish, observe and enforce just and reasonable rules, regulations and practices with respect to car service; and every unjust and unreasonable rule, regulation and practice with respect to car service is prohibited and declared to be unlawful."

But this general provision covering car service was not sufficient for the coal operators, so class legislation was resorted to as follows:

"It shall also be the duty of every carrier by railroad 'to make just and reasonable distribution of cars for transportation of coal among coal mines served by it,' whether located up its line or lines, or customarily dependent upon it for car supply. During any period when the supply of cars available for such service does not equal the requirements of such mines it shall be the duty of the carrier to maintain and supply just and reasonable rating of such mines and to count each and every car furnished to or used by any such mine for transportation of coal against the mine. Failure or refusal so to do shall be unlawful, and in respect of every car not so counted shall be deemed a separate offense, and the carrier, receiver, or operating trustee so failing or refusing shall forfeit to the United States the sum of $100 for each offense,

(Continued on Page 590.)

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Stores and Dwellings (4), Southwest Corner Second and Noble streets, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, I. Edelsttin, Widener Building, Philadelphia. Brick, 3 stories, (3) 16x65 feet, (1) 16x65 feet, slag roof, pine floors, galvanized iron cornice and bay windows, plate glass, flush bulks, cement work, hot water heat, eltctric lighting, tile and marble work. Plans in progress. Owner will be ready for sub-bids in one week.

Bank (add.), Front and Norris streets, Philadelphia. Architects, William Steele & Sons Co., Sixteenth and Arch streets, Philadelphia. Owners, Industrial Trust Title & Savings Co., care of John G. Barruth, president, 1950 North Front street, Philadelphia. Brick, stone, terra cotta and steel, 3 stories, 109x54 feet ,slag roof, composition, pine, tile and terrazzo floors, mttal lath, elevator, safety treads, dampproofing, iron work, rolled steel sash and skylights, marble work, electric lighting, steam heating, stone foundations. Architects have received bids.

Miscellaneous Work, City of Philadelphia. Owner, City of Philadelphia, Department of Wharves, Docks and Ferries, care of George F. Sproule, Director, Bourse Building. Concrete bulkhead, Columbia avenue, roof and spout alterations, Cherry street, copper work, McKean street. Owners taking bids due June 24th.

Station, Cont. 560, Front and Fairmount avenue, Philadelphia. Architect, City of Philadelphia, City Transit Department, 1211 Chestnut street. Owner, City of Philadelphia, Department of City Transit, care of William S. Twining, Director, 1211 Chestnut street, Philadelphia. Concrete, terra cotta and steel, 1 story, 61x18 feet, slag roof, gypsum and tile roof, cement and terrazzo floors, hollow tile, marble work, rolled steel sash and skylights, steel doors, safety treads, roof ventilators, metal ceilings, iron work. Owners have received bids.

Residence (alts. and add.), Midvale and Wissahickon avenues, $3,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, William R. Nicholson, Jr., Midvale and Wissahickon avenues, Philadelphia. Frame, stone and brick, 3 stories, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Owner will build.

Hospital (alts.), Broad and Catharine streets, Philadelphia. Architect, H. L. Duhring, 1112 Chestnut street, Philadelphia. Owners, Howard Hospital, on premises. Brick, concrete and steel, 3 stories, 15x32 feet, wing 15x32 feet, asphalt roof, fireproof and marbleloid floors, metal lath, kalamein doors, fire escapes, iron work, stone foundations. Architect is taking sub-bids.

Residences (2), 428-30 Locust street, Germantown, Philadelphia. Architect, Thomas B. Lippincott, 10 South Eighteenth street, Philadelphia. Owner, Mrs. T. William Kimber, 535 Church Lane, Germantown, Philadelphia. Hollow tile and stucco, or brick, 2½ stories, 36x40 feet, wing 17x20 feet, slate roof, parquetry floors, hot air and hot water heating, electric lighting, tile work. Architect taking bids due June 30th. William J. Gruhler & Co., 219 High street; I. A. Dunkelberger, 71 East Herman street; Samuel Harting, 20 East Johnson street; William C. Wright, 22 Harvey street, and Tourison & Tourison, 1011 Chestnut street, are figuring.

Residence, Forty-seventh and Larchwood avenue, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 31x45 feet, 16x21 feet, slate roof, hardwood floors, vapor heating, electric lighting. Architects are ready for bids.

Residence (alts. and add.), Prospect and Summit avenues, Chestnut Hill. Architect, Herbert J. Wetherill, 430 Allen Lane, Chestnut Hill. Owner, Frederick M. Dunn, 320 Walnut street, Philadelphia. Brick and plaster, 1 story, 25x25 feet, tin roof, heating extension, electric lighting, carpentry, mill work, plumbing, plastering. Architect has received bids.

Cigar Factory (alts.), Third and Brown streets, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, El Producto Co., 21 North Second street, Philadelphia. General alterations, carpentry, mill work, sprinkler system, plastering, iron work, metal lath. Architects have received bids.

Office Building, 1428 Walnut street, Philadelphia. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owners, Charles D. Barney & Co., 122 South Fourth street, Philadelphia. Brick, steel and cut stone, 2 stories, 128x27 feet, slag roof, oak floors, metal lath, skylights, iron work and stairs, stone foundations (heating and electric lighting reserved). Architect taking bids due June 25th. Standard Const. Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street; Ketcham & McQuade, 1029 Brown street; Irwin & Leighton, 126 North Twelfth street; William R. Dougherty, 1610 Sansom street; H. H. Burrell, 206 South Quince street, and Jacob Myers & Sons Co., Witherspoon Building, Philadelphia, are figuring.

Residence (alts.), Fifty-fourth and Wynnefield avenue, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. General interior alterations. Plans in progress.

Church, Fox Chase, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, St. William's Roman Catholic Church, care of Rev. William Motley, Fox Chase, Philadelphia. Demolition awarded to Jump House Wrecking Co., Thirtieth and Callowhill streets, for clearing site. Plans for church in progress.

Garage, 1022-24 Spring street, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Thomas R. Humphrey, on premises. Brick, steel and terra cotta, 2 stories, 33x81 feet, slag roof, cement and pine floors, iron work, electric lighting, rolled steel sash, stone foundations (heating reserved). Architect taking bids due June 24th. Potts Bros. & Cooperson, 129 North Eleventh street; Smith-Hardican Co., 1606 Cherry street; Lam Building Co., 1001 Wood street, Philadelphia, are figuring.

Theatre (alts.), Sheldon avenue and Stenton avenue, Philadelphia. Architects, Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, Marcus A. Benn, Sixty-third and Woodland avenue, Philadelphia. Mill work, metal lath, plastering, iron work, tile and marble work. Architects and owner taking bids due June 24th. Smith-Hardican Co., 1606 Cherry street, and Morris B. Stackhouse, 6070 Reinhard street, Philadelphia, are figuring.

Stores and Apartments (alts.), Woodland avenue near Sixty-third street, Philadelphia. Owner, Marcus A. Benn, Sixty-third and Woodland avenue, Philadelphia. Architects, Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Brick and steel, 2 stories, slag roof, pine floors, metal lath, waterproofing, iron work, tile and marble work, electric lighting, stone foundations (heating reserved). Architect and owner taking bids due June 24th. Smith-Hardican Co., 1606 Cherry street, and Morris B. Stackhouse, 6070 Reinhard street, are figuring.

Office Building, 5219-21 Chestnut street, Philadelphia. Architect, E. Allen Wilson, 1208

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Chestnut street, Philadelphia. Owner, Joseph K. Marshall, 8 South Fifty-second street, Philadelphia. Brick, stone and terra cotta, 2 stories, 114x41 feet, slag roof, pine floors, metal lath, stone foundations, steam heating, electric lighting, tile work, ornamental iron work. Owner will build.

Church (basement), Sixty-first and Oxford streets, Philadelphia. Architects, Druckenmiller & Williams, 1527 Chestnut street, Philadelphia. Owners, Third Christian Church, care of Rev. T. E. Winter, Lancaster avenue and Aspen street, Philadelphia. Stone and brick, 1 story. Architects will be ready for revised bids in a few days.

Building (alts.), 302 North Broad street, Philadelphia. Architect, W. Frisbey Smith, Broad and Arch streets, Philadelphia. Owner, H. Pressman, on premises. Plate glass, metal bulks, mill work and stairs. Plans in progress. Ready for bids in a few days.

Garage and Service Building, 2504 North Broad street, Philadelphia, $12,000. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, name withheld. Brick, 1 story and balcony, 177x25 feet, slag roof, cement, mineral and pine floors, tile and marble work, stone foundations, hollow metal skylights, iron work (elevators, plumbing, heating and electric work reserved). Architect are subletting all contracts.

School (rebuilding), Sixth and Fairmount avenue, Philadelphia. Architect, private plans. Owners, Board of Education, care of J. D. Cassell, Eighteenth above Chestnut street. Will use old walls for new building. Working plans in progress. Will take bids in two months.

Warehouse, Garage and Stable, Second and Washington avenue, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Dr. H. Bredt, 1622 South Fourth street, Philadelphia. Brick, slow burning construction, 1 story, 300x200 feet, slag roof, cement floors, electric lighting, steam heating, rolled steel sash, hollow metal skylights. Architect is ready for bids.

Building (remodeling), Southwest Corner Eleventh and South streets, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. General alterations to 3-story building, 13x62 feet, slag roof, pine floors, steam heating, electric lighting, marble work, plate glass. Plans in progress.

Warehouse, 417 South Second street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owners, Liberty Grocery Co., 269 South Third street, Philadelphia. Brick, 3 stories, 22x120 feet, slag roof, pine floors, electric elevator, stone foundations, steam heating, electric lighting, rolled steel sash, hollow metal skylights, steel rolling door, structural steel. Plans in progress. Architect will be ready for bids in a week.

Residence (alts.) to Apartment House, Northeast Corner Broad and Dauphin streets. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Dr. John Harrison, on premises. General alterations, hot water heating, electric lighting, tile and marble work, iron work, new garage, brick, 1 story, 22x45 feet, slag and cement floors. Plans in progress.

Factory and Warehouse, 447 North Eighth street, Philadelphia. Architect, Herman H. Kline ,1612 North Fourth street, Philadelphia. Owner, John Brown, 1248-52 Callowhill street, Philadelphia. Brick and steel (slow burning construction), 3 stories, 57x78 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting, electric elevators, metal ceilings, rolled steel door, flush bulks, iron work. Plans in progress. Architect will be ready for bids in a week.

Warehouse, Delaware avenue and Poplar streets, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, L. Brenner Sons & Perloff, 837 North American street, Philadelphia. Reinforced concrete, 6 stories and basement, 160x100 feet, slag roof, cement floors, 2 elevators, dampproofing, rolled steel sash, electric lighting, steam heating, concrete foundations (heating, electrical work, elevators and sprinklers reserved). Architect taking bids, due June 25th. John R. Wiggins & Co., Otis Building; Wm. R. Dougherty, 1610 Sansom street; Cramp & Co., Denckla Building; Wark & Co., 1737 Filbert street, and F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Manufacturing Building, 466 North Eighth street, Philadelphia. Architects, Curtis & Grindrod, Franklin Building, Philadelphia. Owners, S. Rosenau Co., Darien and Noble streets, Philadelphia. Brick (slow burning construction), stories not decided, 130x64 feet, slag roof, steam heating, electric lighting. Architects taking tenative sub-bids.

Hotel, southeast corner of Ninth and Chestnut streets, Philadelphia. Architect, Frederick Webber, Morris Building, Philadelphia. Owner, care of architect. Lessee, Hotels Co. of America, 200 Fifth avenue, New York City. Reinforced concrete, steel, stone and terra cotta, 14 stories, 194x230 feet, stone foundations, steam heating, electric lighting, tile, marble and terrazzo work, elevators, ornamental iron work. Sketches drawn. Plans in progress.

Store and Office Building, northwest corner of Fifty-second and Market streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Mohr & Kelley, 5734 Whitby avenue, Philadelphia. Brick, 2 and 3 stories, 37x100 feet, 13 offices, 6 stores, slag roof, pine floors, parabar partitions, stone foundations, hot water heat, electric lighting, tile and marble work, metal bulks. Architect taking bids, due July 1st at noon. John Schnabel Co. (Hogg Const. Co.), Denckla Building; Smith-Hardican Co., 1606 Cherry street; Le Roy K. Smith, Forty-first and Chester avenue; J. D. Fisher, 5414 Thompson street, Philadelphia, and Julius Nelson, Sharon Hill, Pa., are figuring.

Rooming House (alts.), 1224 Parrish street, Philadelphia, $14,580. Architect, private plans. Owners, the Salvation Army, on premises. Brick, slag roof, steam heat, electric lighting, pine floors. Contract awarded to F. L. Hoover & Son, 4023 Cherry street, Philadelphia.

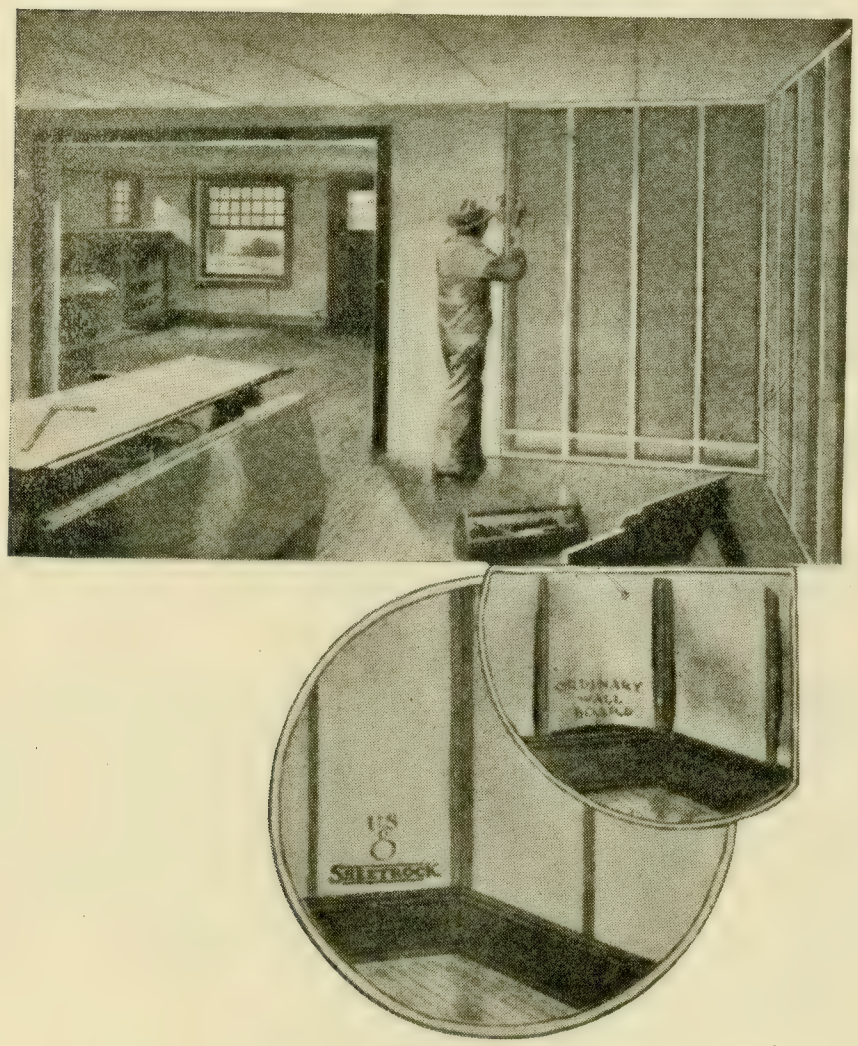
Garages (4), 4700-02-24-26 Roosevelt Boulevard, Philadelphia, $8,000. Owner, Samuel Shoemaker, Land Title Building, Philadelphia. Brick, 1 story, 18x20 feet, slag roof, cement floors, electric light. Owner will build.

Garage, 6609 Lincoln Drive, Philadelphia, $2,000. Architect, private plans. Owner, Jas. N. Mitchell, 4 South Farragut Terrace, Philadelphia. Stone, 1 story, 19x20 feet, slate roof, electric light, cement floors. Owner will build.

Power Plant (alts.), Twenty-first and Market streets, Philadelphia. Const. Engr., H. Berkley Hackett, 505 Chestnut street, Philadelphia. Owners, Foss-Hughes Co., Twentl-first and Market streets, Philadelphia. Foundation work, cement floors, electric work, pipe covering, new boiler, generators, automatic engine. Frank G. Stewart, 1619 Sansom street, Philadelphia, is taking sub-bids.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, 6133 Larchwood avenue, Philadelphia, $3,900. Architect, private plans. Owner, Elizabeth Flynn, 5901 Chestnut street, Philadelphia. Brick, 1 story, 36½x41 feet, slag roof, cement floor, electric lighting, steam heating. Contract awarded to William H. Erb, 4533 Springfield avenue, Philadelphia.

Garage, 2146-48 South Third street, Philadelphia, $6,000. Architect, private plans. Owner, James Devine, Southwest Corner Third and Winton streets, Philadelphia. Brick, 1 story, 45x77 feet, slag roof, steam heating, electric lighting, cement floor. Contract awarded to H. D. Prettyman, 2603 South Broad street, Philadelphia.

Store and Dwelling (alts. and add.), 1366 South street, Philadelphia, $9,500. Architect, private plans. Owners, Samuel Silverberg, 1356 South street, Philadelphia. Brick, 2 stories, 16x14 feet, slag roof, electric lighting. Contract awarded to Harry Robb, 3052 Agate street, Philadelphia.

Residence, Sixty-fourth avenue, West of Eighth street, Philadelphia, $13,000. Architect, private plans. Owner, H. B. Branngard, Oak Lane, Philadelphia. Stone, 2½ stories, 36x31 feet, shingle roof, hot water heating, electric lighting, oak and pine floors, tile work. Contract awarded to C. E. Lloyd, Jr., 6600 North Eighth street, Philadelphia.

Store and Dwelling (alts.), 830 North Twenty-fourth street, Philadelphia, $6.350. Architect, private plans. Owner, John Walton, 840 North Twenty-fourth street, Philadelphia. Carpentry, mill work, new flush bulks. Contract awarded to F. I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Store and Dwelling (alts. and add.), 2231 North Broad street, $4,500. Architect, private plans. Owner, Robert Fleming, 913 West Diamond street, Philadelphia. Brick, 1 story, 3x32 feet, slag roof, cement floors (heating and lighting reserved), metal skylights. Contract awarded to William F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia.

Storage (add.), 341 North Orianna street, Philadelphia, $4,600. Architect, private plans. Owner, William D. Friedlanedr, on premises. Brick, 1 story, 28x61 feet, slag roof. Contract awarded to Joseph E. Foster, 806 Walnut street, Philadelphia.

Factory (alts.), 5217 Germantown avenue, Philadelphia, $7,500. Owner, Fredericks & Condon, 311 W. Seymour street, Philadelphia. General alterations. Contract awarded to John Roman, 414 East Bringhurst street, Philadelphia.

Store (alts.), Northwest Corner Seventh and Girard avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Goldstein, Grossman & Herbach, on premises. Changing 2 stores into one, flush bulks, electric lighting, plumbing, hardwood floors. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Residence (alts.), Oak Lane, Philadelphia. Architects, Magaziner & Eberhard, 603 Chest-



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nut street, Philadelphia. Owner, Simon Katz, 431 Walnut street, Philadelphia. Frame and shingle sleeping porch, 30x10 feet. Contract awarded to T. W. Shepherd, Oak Lane, Philadelphia.

Storage Building, Broad street, South of Ritner street, $4,300. Architect, private plans. Owner, James L. Christian, 2410 South Broad street, Philadelphia. Brick and steel, 1 story, 18x80 feet, slag roof, cement floors. Contract awarded to John H. McCloskey, 1020 Chestnut street, Philadelphia.

Storage Building (alts.), 720-26 Vine street, Philadelphia, $5,000. Owner, A. H. Rose, 1748 Frankford avenue, Philadelphia. General alterations. Contract awarded Harry Rose, 1748 Frankford avenue, Philadelphia.

Office and Garage, Duncannon street, East of Second street, Philadelphia, $15,000. Architect, private plans. Owners, Olney Foundry Co., Mascher and Duncannon streets, Philadelphia. Brick and steel, 2 stories, 30x47 feet, slag roof, steam heating, electric lighting, cement floors, rolled steel sash and skylights, iron and steel work. Contract awarded to William Steele & Sons Co., Sixteenth and Arch streets, Philadelphia.

Factory and Forge Shop, Hunting Park avenue, West of Rising Sun avenue, Philadelphia, $165,000. Architect, private plans. Owner, Commercial Truck Co., Twenty-seventh and Brown streets, Philadelphia. Brick and concrete, 1 story, 51½x101½ feet, and steel frame, 1 story, 280x440 feet, slag roof, steam heat, electric lighting, cement floors, steel sash and skylights, roof ventilators, iron and steel work. Contract awarded to William Steele & Sons Co., Sixteenth and Arch streets, Philadelphia.

Residence (alts. and add.), 2021 North Broad street, Philadelphia, $4,800. Architect, private plans. Owner, John W. Wagner, on premises. Brick, 1 story, 6x12 feet, slag roof, electric lighting, hardwood floors. Contract awarded to Charles H. Shuster, 2109 North Seventeenth street, Philadelphia.

Store (alts.), 621 Market street, Philadelphia, $10,500. Owner, Bloch Bros., 327 Market street, Philadelphia. Architect, private plans. Brick work, marble work, painting, metal lath, plastering, new bulks. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

Dwelling (add.), 1817 Spruce street, Philadelphia, $2,500. Architect, private plans. Owner, Rev. James M. Niblo, on premises. General alterations. Contract awarded to James C. Driscoll Co., 34 South Seventeenth street, Philadelphia.

Residence (alts. and add.), 171 East Walnut Lane, Philadelphia, $7,000. Architect, Louis Sterner, 172 East Walnut Lane, Philadelphia. Owner, Barrey Estate, on premises. Brick, 1 story, 20½x15 feet, slag roof, hot air heat, electric lighting, pine floors. Contract awarded to James H. Walter, 168 East Walnut Lane, Philadelphia.

Boiler House, Sixth and Collom streets, Philadelphia, $25,200. Architect, private plans. Owner, D. F. Waters, 53 Wister street, Philadelphia. Brick, 1 story, 42x73 feet, slag roof, cement work, electric lighting. Contract awarded to R. M. Peterson & Son, 5114 Germantown avenue.

Office Building (alts.), 1511 Walnut street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, West & Co., 1417 Chestnut street, Philadelphia. Steel, brick, stone and concrete, 4 stories, 118x42 feet, slag roof, cement and terrazzo floors, metal lath, stone foundations, tile work, marble work, hollow metal sash, rolled steel skylights, iron work. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Residence and Office (alts. and add.), 817 North Franklin street, Philadelphia, $10,000. Architect, private plans. Owner, Providence Co., on premises. Brick, 1 story, 27x40 feet, wing 12x30 feet, slag roof, hardwood floors,

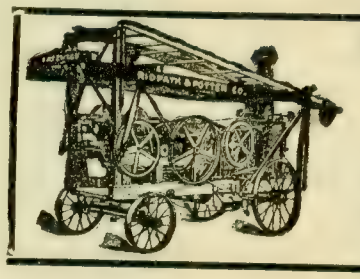


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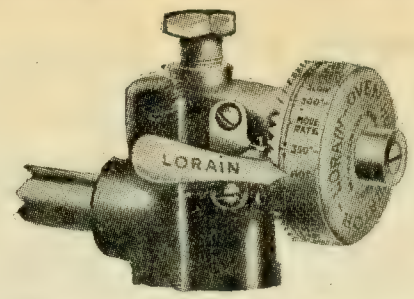
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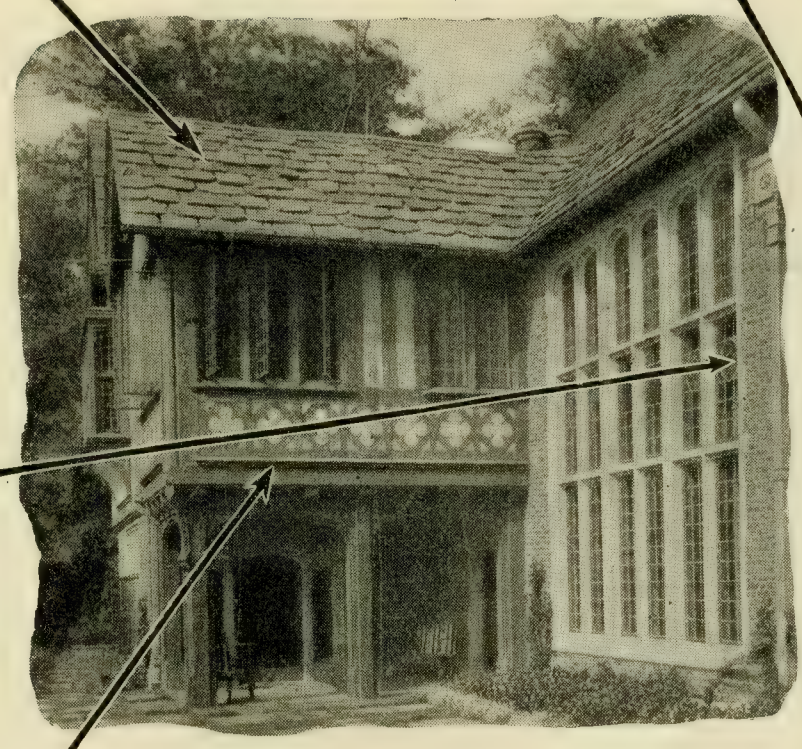
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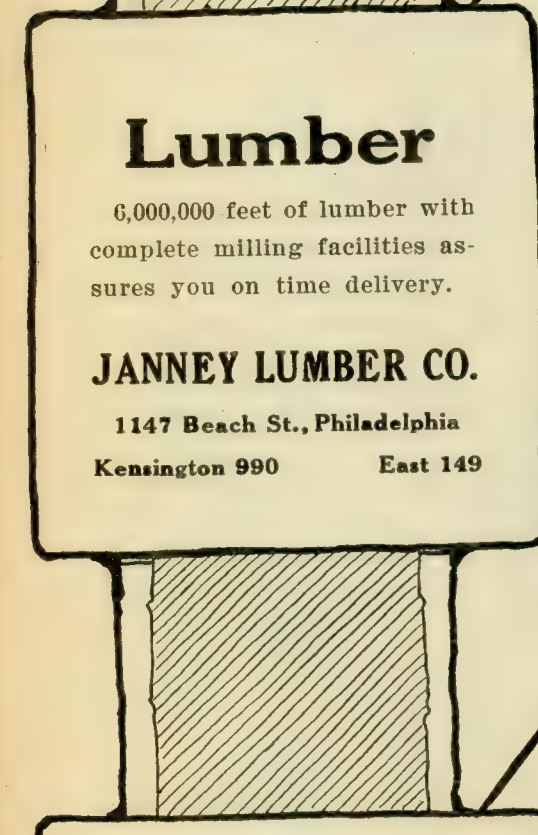
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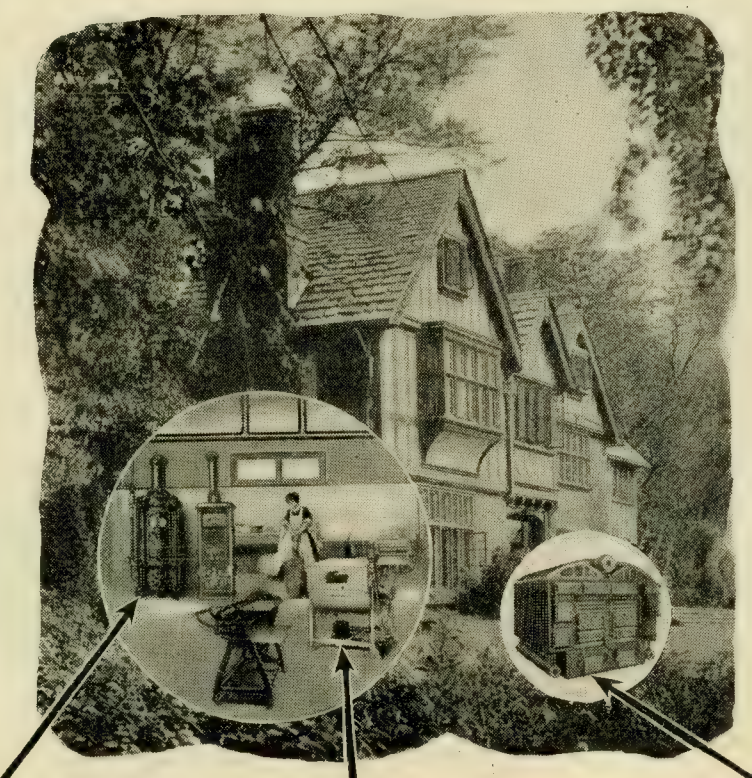
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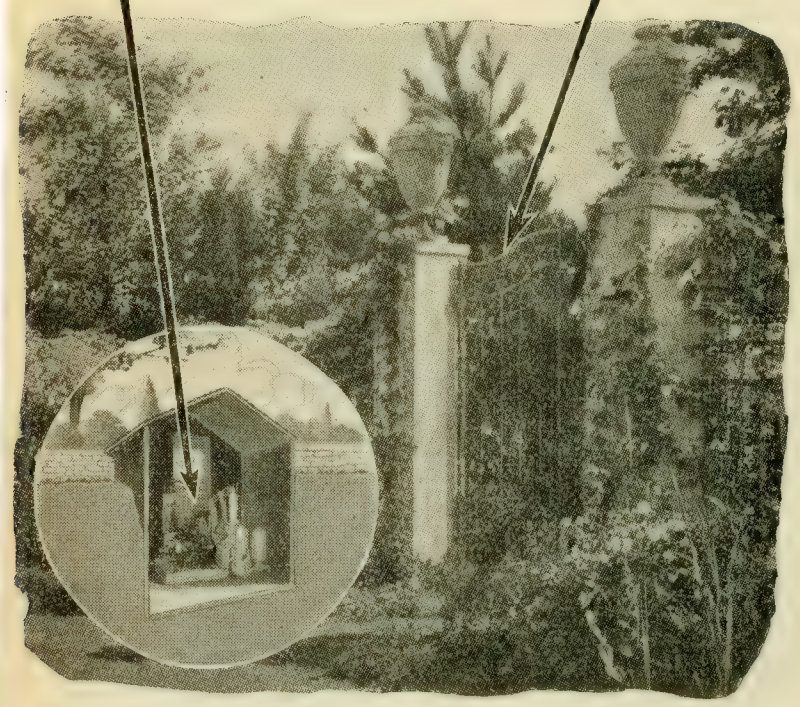
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J. S. SLACK, Manager
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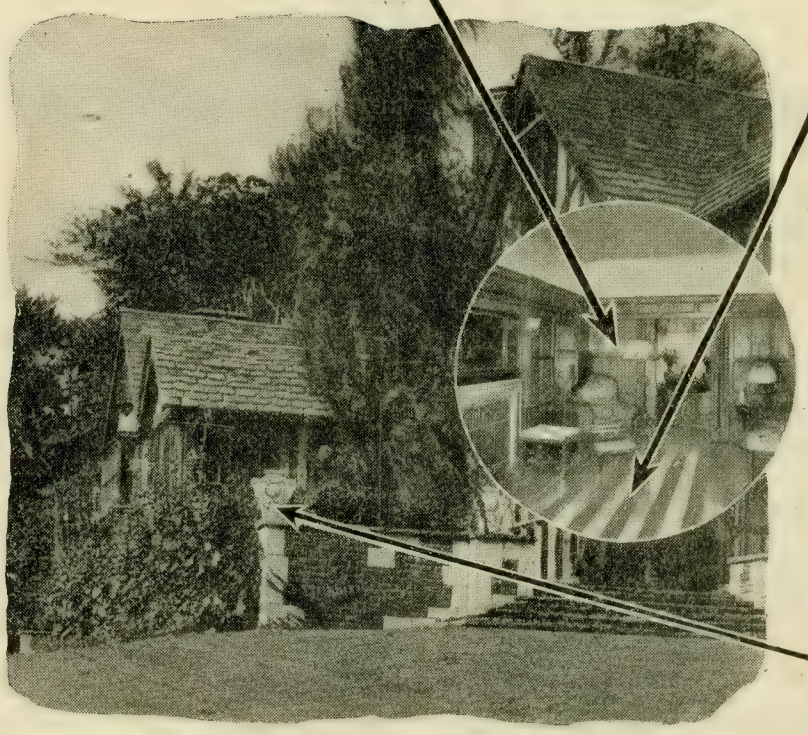
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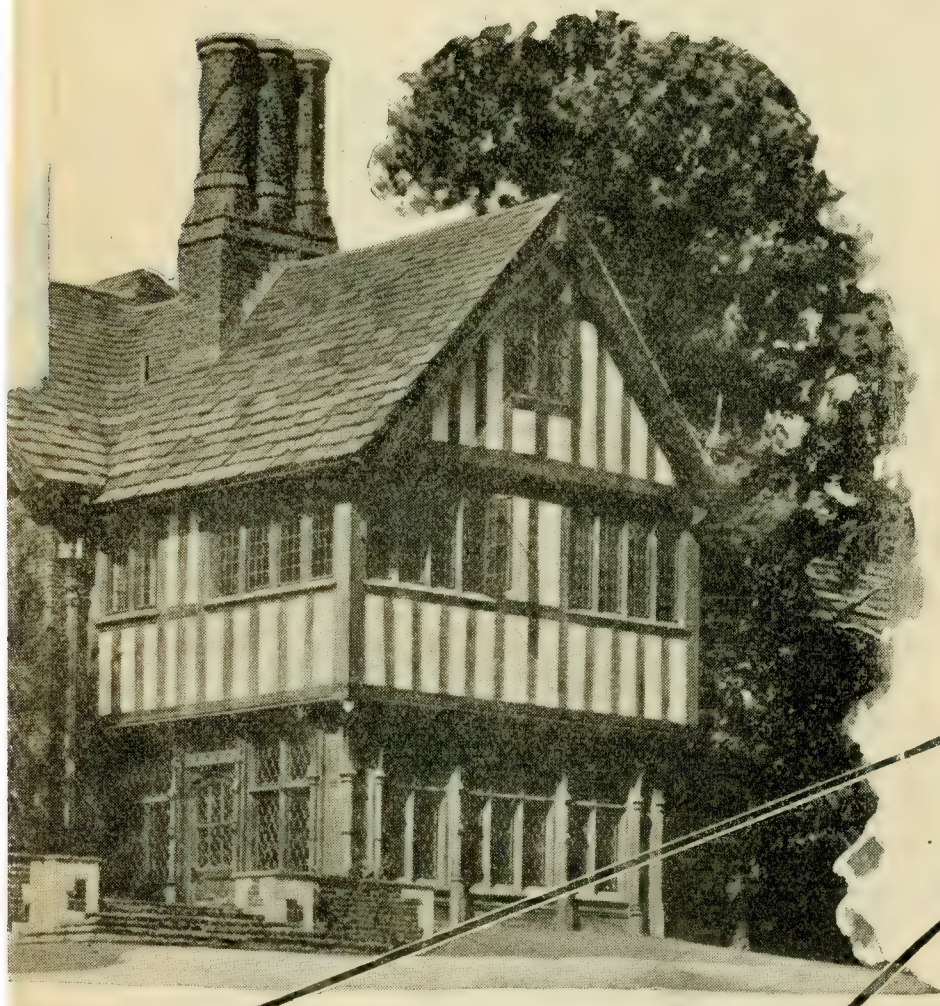


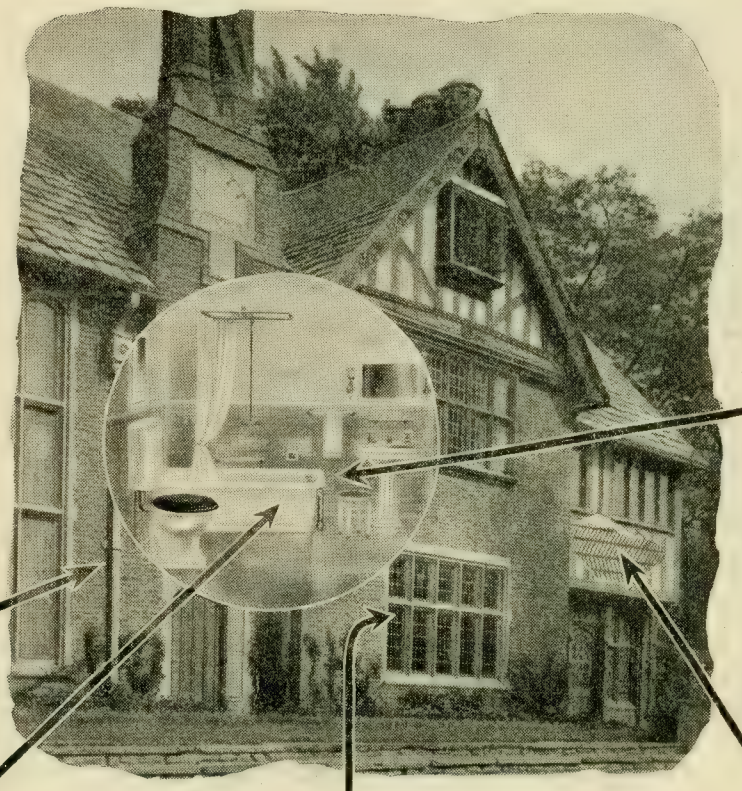


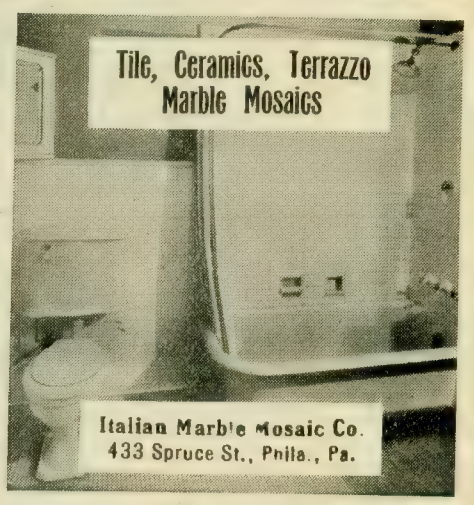
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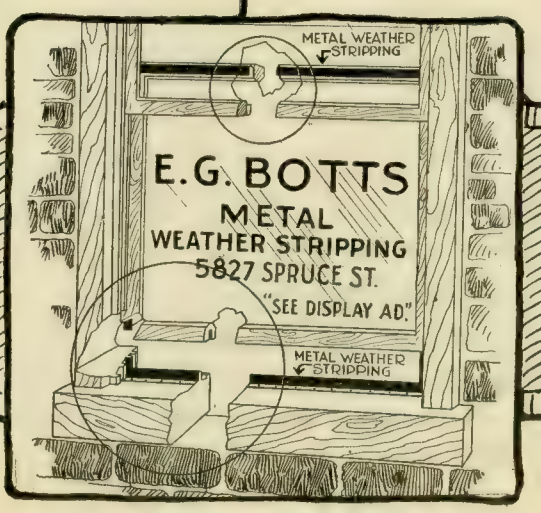






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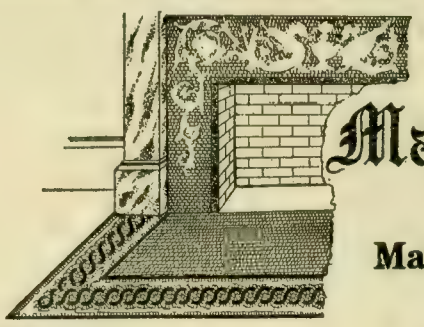


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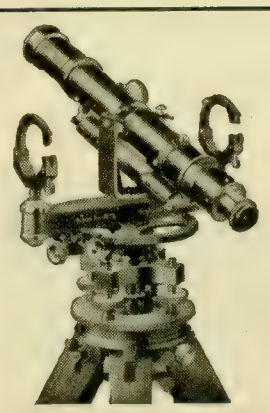
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electric lighting, hot water heating. Contract awarded to Penn Const. Co., 3840 Spring Garden street, Philadelphia.

Garage, 432 Lyceum avenue, Philadelphia, $3,300. Architect, private plans. Owner, F. A. Wilkinson, on premises. Stone, 1 story, 18x21 feet, slate roof, stone foundations, cement floor. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Store, 5946 Germantown avenue, Philadelphia, $4,950. Architect, private plans. Owner, Albert W. Frost, on premises. Brick, 1 story, 11½x64 feet, slag roof, electric lighting, pine floors. Contract awarded to William H. Carr, 17 East School Lane, Germantown.

Warehouse (alts.), 422 North Third street, Philadelphia, $7,000. Architect, private plans. Owner, A. Waxman & Co., on premises. New front, brick work, structural steel, brick and cement work, carpentry and mill work. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Storage Building (add. and repairs), 846-48 North Fourth street, $9,150. Architect, private plans. Owner, August M. Hingen, on premises. Brick, 1 story, 41x50 feet, slag roof, electric lighting, general fire renovation. Contract awarded to F. I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Store Building (alts.), 2258 North Front street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, S. J. Lyons, 2258 North Front street, Philadelphia. New front, brick work, carpentry, mill work, painting, glazing. Contract awarded to Bushnell Bros., 2146 East Norris street.

Store (alts.), 983-5 North Second street, Philadelphia, $5,000. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owners. Wm. Graham & Co., on premises. Timber reinforcements for floors. Contract awarded to Thos. C. Trafford, 1613 Sansom street, Philadelphia.

Store and Dwelling, 2213 Ridge avenue, Philadelphia, $7,500. Architect, private plans. Owner, Andrew Burk, 708 South Fourth street, Philadelphia. Brick, 3 stories, 17x35 feet and 13x15 feet, slag roof, electric lighting. Contract awarded to Senechtman Bros., 1734 North Seventh street, Philadelphia.

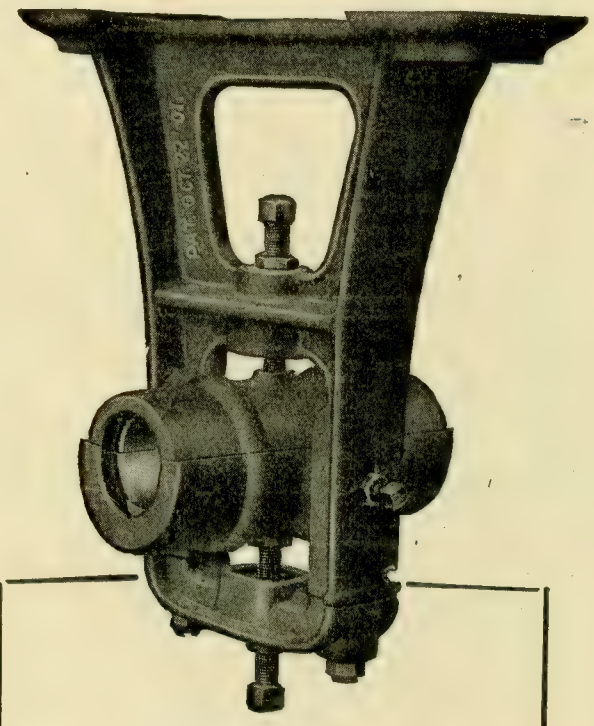
Dwellings (2), Erdwick and Conly streets, Philadelphia, $6,000. Architect, private plans. Owner, Herbert W. Potter, Lincoln Building, Philadelphia. Frame, 2 stories, 16x34 feet and 16x20 feet, slate roof, hot water heat, electric light, pine floors. Contract awarded to Lewis Dietrich, 3016 Conly street, Philadelphia.

Dwelling (alts.), 4801 North Tenth street, Philadelphia, $4,100. Architect, private plans. Owners, American Stores Co., Fourth and Noble streets, Philadelphia. Carpentry and brickwork. Contract awarded to H. B. Boorse Co., 665 North Fifteenth street, Philadelphia.

Shop, 2354 North Sixth street, Philadelphia, $3,600. Architect, private plans. Owner, Fred Brauner, 2354 North Sixth street, Philadelphia. Brick, 1 story, 32x34 feet, slag roof, electric lighting, pine floors. Contract awarded to George E. Hawk, 1201 West Columbia avenue, Philadelphia.

Sterilizing Rooms and Alcoves (alts. and add.), Eighteenth and Parkway, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Medico-Chirurgical Hospital, on premises. Plumbing, painting, hardware, marble work, sterilizing equipment, gypsum tile, roof ventilator, plastering. Contract awarded to A. MacTavish, 1513 Pine street, Philadelphia.

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PENNSYLVANIA
Construction News

Garage, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owners, Sears & Bowers, Beck street, Easton, Pa. Brick, 1 story, 27x75 feet, concrete foundations, slag roof, concrete floors, hot water heating, electric lighting, gasoline storage system. Plans in progress.

School (add. and alt.), Rosemont, Pa. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Rev. James J. Hasson, Rosemont, Pa. Brick, 3 stories, 70x100 feet. Plans in progress. Too early for details.

Chapel, Swedeland, Montgomery county, Pa. Architects, Savery & Sheetz, Stephen Girard Building, Philadelphia. Owners, Alan Wood Iron & Steel Co., Swedeland, Pa. Stone, 1½ stories, 35x52 feet, slate roof, maple floors, roof ventilators, stone foundations, iron work (plumbing, heating and electric work reserved). Architect have received bids.

Church and Manse, Drexel Hill, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Presbyterian Church of Drexel Hill, Drexel Hill, Pa. Stone, 2½ stories and 1½ stories, 97x64 feet and 27x35 feet, slate roof, pine and composition floors, stone foundations, electric lighting, tile work, iron work (heating reserved). Architects have received bids.

Observatory Building, Jenkintown, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, Henry C. Gibson, Jenkintown, Pa. Frame, 1 story, 25x50 feet, tin roof, concrete foundations and floor. Architects ready for sub-bids.

Church, Hershey, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owner, Roman Catholic Church, care of Rev. P. J. Phelan, Cathedral, Harrisburg, Pa. Frame, 1 story, 78x36 feet, slate roof, stone foundations, pipeless heater, electric lighting. Architect has received bids.

School, Willow Grove, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Upper Moreland School District, Willow Grove, Pa. Brick and hollow tile, 1 story, 147x54 feet, wing 78x40 feet, slate roof, pine and composition floors, stone foundations, steam heat, electric lighting, plumbing, ventilators. Lowest bid submitted by Harry Murphy, Willow Grove, Pa., $61,000.

Warehouse, Easton, Pa. Architect, private plans. Owner, E. R. Armstrong, 134 North Second street, Easton, Pa. Brick, 1 story, 31x65 feet, 19x36 feet, stone foundations, slag roof, composition floors. Owner will sub-let.

Factory, Hamilton street, Allentown, Pa., $35,000. Architect, H. Anderson, Stites Building, Allentown, Pa. Owner, Allentown Cable & Machine Co., Allentown, Pa. Brick, 1 story, 50x100 feet, slag roof, pine and concrete floors. Plans in progress.

Bakery, Allentown, Pa., $40,000. Architect, R. E. Oche, 440 Wine street, Allentown, Pa. Owner, United States Baking Co., W. G. Vogel, 635 North Lumber street, Allentown, Pa. Brick, 1 story, 47x110 feet, slag roof, pine floors, electric lighting. Plans in progress.

Apartment (alts.), Nazareth, Pa. Architect, H. G. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, A. G. Connolly, Nazareth, Pa. General interior alterations. Plans in progress.

Residence (alts.), Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, Dr. L. V. Geehan, Bethlehem, Pa. Interior alterations, hot water heating, hardwood floors, sun parlor. Plans in progress.

Factory, New street, Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, Jerry Quinlin, New street, Bethlehem, Pa. Brick, 3 stories, 60x25 feet, concrete foundations, slag roof, pine floors, electric lighting, rolled steel sash, fire doors, elevators, roof ventilators. Preliminary plans in progress.

Store, Third and New streets, Bethlehem, Pa. Architects, Wiegner & Anderson, Bethlehem Trust Building, Bethlehem. Owner, name withheld. Terra cotta, 3 stories, 110x165 feet. Preliminary plans in progress.

Bungalow, Bethlehem, Pa. Architect, H. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Mr. Kropf, care of architect. Brick, 1½ stories, 30x50 feet, asbestos shingle roof, hardwood floors, electric light, tile work. Plans in progress.

Bungalow, Monroe county, Pa. Architect, H. Weigner, Bethlehem Trust Building, Beth-

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lehem, Pa. Owner, Mr. Drake, Newark, N. J. Stone and shingle, 1½ stories, 40x60 feet, stone foundations, shingle roof, hardwood floors, electric light, tile work. Sketches in progress.

Herbst School (alt.), Allentown, Pa. Architect, E. H. Werzelberger, Reeder Building, Easton, Pa. Owner, School Board of Allentown, George Wenner, secretary, Allentown, Pa. General remodeling of interior, maple floors, new plumbing, school equipment. Board taking bids due June 28th. Butz & Clader, Tilgham Moyer, Ochs Const. Co., G. Hardner, S. H. Gangwere Co., Allentown, Pa., are figuring.

School (alts.), Allentown, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, School Board of Allentown, care of George Wenner, secretary, Allentown, Pa. General interior alterations, maple floors, new plumbing, school equipment. Board taking bids due June 28th. Butz & Clader, Tilgham Moyer, Ochs Const. Co., G. Hardner and W. H. Gangwere Co., all of Allentown, Pa., figuring.

School (add), West Easton, Pa., $12,000. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, West Easton School District, W. H. Bell, secretary, Easton, Pa. Brick, 2 stories, 34x40 feet, slag roof, maple floors ,electric light, school equipment. Board taking bids.

Theatre, Seventeenth and Washington streets, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owners, Twin City Theatre Co., Clayton D. Buss, president, 104 North Fourth street, Easton, Pa. Brick, 1 and 2 stories, 50x112 feet, concrete foundations, slag roof, concrete floors, vapor heat, electric light, hollow metal skylights, roof ventilators. Architect will be ready for bids in one week.

Building, SS. Peter and Paul Cemetery, Marple, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owner, Catholic Archdiocese of Philadelphia, Eighteenth and Race streets. Frame, 2 stories, slag roof. Architect taking bids due June 24th. James Johnston Co., 1721 Ludlow street; M. Melody & Son, 1322 Race street, and P. J. & J. F. Whelan, 1011 Chestnut street, are figuring.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioners, State Capitol Building, Harrisburg, Pa. Low bidders as follows:—

Beaver County, White Township, Route 77, length 1,606 feet. Vitrified brick. Peter F. Connolly, Boston, Mass., Koppel, Pa., $58,828.05.

Bedford County, West Providence and Hopewell Townships, Route 46, length 54,217 feet. Either bituminous macadam surface on a Telford foundation or one course reinforced concrete. Union Paving Co., Thirtieth and Locust streets, Philadelphia, $561,325.55.

Clarion County, Shippenville Borough, Route 65, length 3,203 feet. One course reinforced concrete. Red Bank Const. Co., Inc., New Bethlehem, Pa. $66,632.20.

Clinton County, Chapman Township and Renovo Borough, Routte 105, length 3,928 feet. One course reinforced concrete. Thomas E. Neylon, Renovo, Pa., $88,875.15.

Cumberland County, East Pennsboro Township and Camp Hill Borough, Route 34, length 13,520 feet. One course reinforced concrete. Ward & Tully, Inc., Brooklyn, N. Y., $279,808.88.

Delaware County, Millbourne and Upper Darby Township, Routet 133, length 2,635 feet. One course reinforced concrete. C. E. Weed, Inc., Albany, N. Y., $36,084.00.

Jefferson County, Brookville Borough, length 1,684 feet, Routet 64. Vitrified brick. S. Van Shields, Brookville, Pa., $41,736.00.

Luzerne County, Salem Township, Route 4, length 17,575 feet. One course reinforced concrete. Summit Cont. Co. ,Elizabeth, N. J., $241,566.37.

Lycoming County, Jackson, Cogan House and Lewis Townships, Route 21, length 52,520 feet One course reinforced concrete. Keystone State Const. Co., Franklin Bank Building, Philadelphia, $984,800.20.

Northampton County, Bangor Borough, Route 165-166, length 7,441 feet. One course reinforced concrete. C. E. Weed, Albany, N. Y., $110,673.00.

Pike County, Milford Borough, Routes 8 and 167, length 4,508 feet Either bituminous surface course on a concrete foundation or one course reinforced concrete. H. B. Sproul Const. Co., Inc., Scranton, Pa., $49,601.75.

Tioga County, Richmond and Tioga Townships and Mansfield and Tioga Boroughs, Route 106, length 42,052 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Frank L. Cohen, Inc., Buffalo, N. Y., $590,557.10.

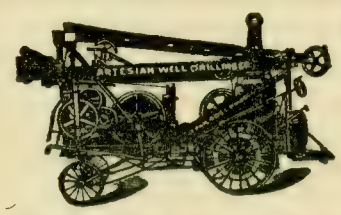
Venango County, Victory and Sandy Creek Townships, Route 223, length 50,025 feet. One course reinforced concrete and Hillside vitrified brick. State Const. Co., New Kensington, Pa., $804,688.70.

Washington County, Mt. Pleasant and Smith Townships, Route 115, length 34,644 feet. One course reinforced concrete. Samuel Gamble Co., Carnegie, Pa., $475,046.50.

Westmoreland County, Derry Township, Routet 68, length 32,047 feet. One course re-

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inforced concrete. McCrady Bros. Co., Braddock, Pa., $487,193.15.

Westmoreland County, Arona Borough, Route 118, length 2,609 feet. One course reinforced concrete. J. I. Dick, Scottdale, Pa., $40,550.40.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioners, State Capitol Building, Harrisburg, Pa.

Bedford County, Hopewell Township, Route 46, length 20,187 feet. Either bituminous macadam surface course on a Telford foundation or one course reinforced concrete. Union Paving Co., Thirteith and Locust streets, Philadelphia, $268,851.85.

Beaver County, Darlington Township and Darlington Borough, Route 204, length 26,949 feet. One course reinforced concrete. W. M. Keesecker and E. J. Kane, Youngstown, Ohio, $414,297.30.

Cumberland County, East Pennsgrove Township and West Fairview Borough, Appli. 231-394, length 18,230 feet. One course reinforced concrete. Awixa Corporation, Islip, N. Y., $224,983.74.

Fayette County, Perry and Jefferson Townships, Route 247, length 14,496 feet. One course reinforced concrete and Hillside vitrified brick. Petriello Bros. & Co., Brownsville, Pa., $250,182.80.

Jefferson and Clarion Counties, Union Township and Corsida Borough, Jefferson County, and Clarion Township, Clarion County, Route 64, length 39,305 feet. One course reinforced concrete and Hillside vitrified brick. Leo E. Kelly, Brooklyn, N. Y., $509,842.78.

Northumberland County, Shamokin, Rockefeller and U. Augusta Townships, Route 161, length 26,200 feet. One course reinforced concrete. Sutton & Corson Co., Ocean City, N. J., $326,035.20.

Tioga-Lycoming Counties, Hamilton, Bloss and Liberty Townships and Liberty Borough, Tioga County, and Jackson Township, Lycoming County, Route 21, length 72,004 feet. One course reinforced concrete. Porter Bros., Mt. Pocono, Pa., $1,255,633.40.

Pike County, Matamoras Borough, Route 8, length 3,549 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. H. B. Sproul Const. Co., Inc., Scranton, Pa., $35,155.00.

Union County, Greeg Township, Route 176, length 5,960 feet One course reinforced concrete. T. L. Evans Sons, Danville, Pa., $69,311.15.

Venango County, Sandy Creek and French Creek Townships, Routte 208, length 19,033 feet. One course reinforced concrete and Hillside vitrified brick. Martin Dolan, Jamestown, N. Y., $209,992.92.

Westmoreland County, Derry Township, Appl. 965, length 13,565 feet. One course reinforced concrete. M. Bennett & Sons, Indiana, Pa., $190,930.85.

Residence, Merion, Pa. Architects, Curtis & Grindrod, Franklin Building, Philadelphia. Owner, Charles V. Bergh, 4805 Springfield avenue, Philadelphia. Stone, 2½ stories, 58x38 feet, wing 21x22 feet, slate roof, oak and pine floors, stone foundations, tile and marble work, iron work (heating, electric lighting and plumbing reserved). Owner will build and is taking sub-bids.

Residence and Garage, Wynnewood, Pa. Architect, Gabriel B. Roth, 1629 Chestnut street, Philadelphia. Owner's name withheld. Brick and stone, 2½ stories, 30x47 feet, wing 23x27 feet and 20x22 feet, slate or shingle roof, electric lighting, hardwood floors. Plans in progress.

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Pennsylvania Contracts Awarded

Church, Rubican and Fairview streets, Cresmont, Pa. Architect, C. Henry Wilson, 1928 South College avenue, Philadelphia. Owners, First Baptist Congregation, Cresmont, Pa. Stone, 1 story and basement, 40x60 feet, slate roof, hardwood floors, stone foundations, steam heat, electric lighting. Contract awarded to W. D. Speece, Glendora, N. J.

Residence (alts.), Lansdowne and Cedar avenues, Highland Park, Pa. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owner, J. T. O'Hara, on premises. Enclosing porches, hot water heating, electric lighting, cement work, paving, plumbing. Contract awarded to E. A. Wheeler, 122½ North Sixteenth street, Philadelphia.

Store (alts.), 110 South Third street, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, William Bricker, Third and Lehigh avenue, Easton, Pa. Plate glass, general alterations, composition floors, steel work. Contract awarded to Bechtel & Bechtel, Easton, Pa.

Residence, Berwyn, Pa. Architects, Hance, Mitchell & Neely, 1619 Chestnut street, Philadelphia. Owner, S. Alfred Ritner, Berwyn, Pa. Frame and stucco, 2½ stories, 28x40 feet, shingle roof, oak floors, hot water heat, electric lighting, tile work. Contract awarded to E. A. Wheeler, 122½ North Sixteenth street, Philadelphia.

Bungalow, Ardmore Park, Pa. Architect, C. Henry Wilson, 2nd, 1928 South College avenue, Philadelphia. Owner, Mrs. E. Yerkes, 226 Linwood avenue, Ardmore, Pa. Hollow tile and stucco, 1½ stories, 26x32 feet, asbestos shingle roof, hardwood floors, hot water heating, electric and gas lighting, tile work, cement work, leaded glass. Contract awarded to W. D. Speece, Glendora, N. J.

New Jersey Construction News

Warehouse, No. 53, State street, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Victor Talking Machine Co., Camden, N. J. Concrete and wood, 1 story, 400x400 feet, slag roof, cement floors, stone foundations, rolled steel sash and skylights, fire doors, iron work (heating, electric lighting and plumbing reserved). Architects have received bids.

School, Morris Park, N. J. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Lopatcong Township, care of architect. Brick, 2 stories, 40x60 feet, concrete foundations, slate roof, hot air heating, electric lighting. Plans in progress.

Store and Dwelling, Laurel Springs, N. J. Architect, C. Henry Wilson, 2nd, 1928 South College avenue, Philadelphia. Owner, W. F. Register, Laurel Springs, N. J. Hollow tile and stucco, 2½ stories, 36x42 feet, asbestos shingle roof, hot water heat, electric light, concrete foundations, hardwood floors, flush bulks. Owner will be ready for bids in ten days.

New East Wing, State Capitol, Trenton, N. J. Architect, Francis H. Bent, Trenton, N. J. Owner, State of New Jersey, care of State Architect. Concrete, brick and steel, 3 stories, 243x52 feet, slag roof, tile, block, cement, composition and terrazzo floors, metal lath, dampproofing, stone foundations, tile

Building Lime—Buy pure lime, no core, no grit—Chemical Lime. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Phila. Both 'phones.

and marble work, rolled steel and hollow metal sash and doors, iron stairs and work. Architect has received bids.

Chamber of Commerce Building, Camden, N. J., $100,000. Architect, H. W. Moffett, 30 North Third street, Camden, N. J. Owner, Chamber of Commerce of Camden, care of William Stranditz, Camden, N. J. Brick and stone, 3 stories, 40x100 feet, concrete foundations, slag roof, hardwood and terrazzo floors, steam heating, electric lighting, tile, marble and terrazzo work, rolled steel skylights. Plans in progress.

Residence, Wildwood Crest, N. J. Architect, H. W. Moffett, 30 North Third street, Camden, N. J. Owner, name withheld. Frame, 2 stories, 22x26 feet, shingle roof, pine floors, electric lighting, tile work, fireplace. Plans in progress.

Machine Shop (add.), Camden, N. J., $6,000. Architect, private plans. Owner, S. M. Langston Machine Co., Sixth and Jefferson streets, Camden, N. J. Brick, 2 stories, slag roof, pine floors. Mockett Const. Co., Sixth and Market streets, Camden, N. J., are taking sub-bids.

Schools (3), Blackwood Terrace, Jericho and New Sharon, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Depford Township, N. J. Cement, 1 story, 30x70 feet. Architect taking bids, due June 30th. Graham & Wells, 3649 Filbert street, Philadelphia; Neilson & Carlson, Wenonah, N. J.; Parsons & Robinson, Pennsgrove, N. J., and S. L. Parks, Swedesboro, N. J., are figuring.

School (add.), Shiloh, Cumberland County, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, School Board of Hopewell Township, care of W. E. Davis, Shiloh, N. J. Brick, 2 stories and basement, 60x120 feet, concrete foundations, tin and slag roof, maple floors, electric lighting. Plans in progress.

Water Tank, Vineland, N. J. Architect, E. H. Bent, State Capitol Building, Trenton, N. J. Owners, State Home for Feeble Minded, care of architect. Reinforced concrete, 37x17 feet, 15 feet high, asbestos shingle roof, 200 feet 6 inches cast iron pipe, iron ladder. Architect taking bids. W. W. Boggs, Trenton, N. J.; George Pfeiffer, 209 Market street, Camden, N. J., and A. J. Nicholas & Co., Bulletin Building, Philadelphia, are figuring.

Laundry, Clinton, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, care of architect. Brick, 1 story, 64x60 feet, slate roof, wood and concrete floors. Architect taking bids, due June 25th. Carleton Co., Inc., 42 Broadway; Conners Bros., 15 W. Ninety-first street, both of New York; Carrol & Pullen, Princeton, N. J., and Standard Const. Co., 1713 Sansom street, Philadelphia, are figuring.

Fire Protection, Trenton, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, State Hospital, care of architect. Two new fire towers, iron rail, slate roofs, steel stairs. Architect taking bids, due June 28th. Carl Poinsett, Burton & Burton, T. Day and N. A. K. Bugbee & Co., all of Trenton, N. J., are figuring.

Office (add.), Woodbury, N. J. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Dr. D. Campbell, Woodbury, N. J. Brick, 1 story, 20x65 feet, slag roof, terrazzo floors, stone foundations, hot water heat, electric light, tile work. Contract awarded to C. C. Thurlow, Woodbury, N. J.

Delaware Construction News

House (alts. and add.), Seventeenth and Riverview, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Stone, concrete and stucco, 2½ stories, tile roof, hardwood floors, electric lighting, heating extension, tile and marble work, interior and exterior alterations. Architect will take bids this week.

Church, Clayton, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Father O'Connell, Clayton, Del. Brick, 1 story and basement, 27x60 feet, slate roof, pine floors, steam heating, electric lighting, hollow metal skylights, roof ventilators. Architect taking bids due June 25th. William Clark, Delaware City, Del., and C. J. Dougherty, Wilmington, Del., are figuring.

Garages (5), 611 South Harrison street, Wilmington, Del. Architect, private plans. Owner, Stanley Radulski, Wilmington, Del. Brick, 1 story, 10x29 feet, stone foundations, concrete floors. Contract awarded to J. Tomozak, 612 South Franklin street, Wilmington, Del.

Store and Dwelling (add.), Eighth and Orange streets, Wilmington, Del., $5,000. Architect, private plans. Owner, John Perrone, Wilmington, Del. Brick, 1 story, 20x28 feet and 8x10 feet, slag roof, pine floors. Contract awarded to C. H. Tindall & Son, 614 Tatnall street, Wilmington, Del.

Miscellaneous Construction News

Aeroplane Hangars, Langley Field, Va. Architect, Const. Division, War Department, Washington, D. C. Owner, United States Government, Washington, D. C. Steel and corrugated iron, 110x140 feet, 1 story, corrugated roof, concrete foundations, rolled steel sash, iron work. Owners taking bids due June 24th. Stang & Mitchell, Real Estate Trust Building, Philadelphia, are figuring.

Aeroplane Hangar, Mitchell Field, Mineola, L. I. Architect, Const. Division, War Department, Washington, D. C. Owner, United States Government, Washington, D. C. Steel and corrugated iron, 1 story, 110x140 feet, steel and corrugated iron siding, concrete foundations, corrugated roof, iron work, rolled steel sash Owners taking bids due June 24th. Stang & Mitchell, Real Estate Trust Building, Philadelphia, are figuring.

Government Settlement, Langley Field, Va. Architect, Const. Division, War Department, Washington, D. C. Owner, United States Government, Washington, D. C. Boiler house, power house, boat house, (3) hose reel houses, fire station, non-commissioned officers' quarters, (4) family, (2) N. C. O. bachelors' quarters, (2) bachelors' officers' quarters, bachelors' mess building, (4) company officers' quarters, commissioned officers' quarters. Owners taking bids due June 25th. Steel, brick, terra cotta and frame, 2½ and 1 stories, slate and tin roof, concrete foundations, steam and hot air heating, concrete and pine floors, hollow tile, metal lath, roof ventilators, electric ligthing, fire doors, iron work. Stang & Mitchell, Real Estate Trust Building, Philadelphia, are figuring.

Church and Parish House, Kannapolis, N. C., $50,000. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Reformed Church, care of Rev. L. A. Peeler, Kannapolis, N. C. Hollow tile and stone, 1 story, 75x100 feet, slate roof, stone foundations, steam heat, electric light, tile and marble work. Plans in progress.

Church and Parish House, Niagara Falls, N. Y., $150,000. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, St. Paul's M. E. Church, Rev. C. W. Wallser, Niagara Falls, N. Y. Brick and stone, 1 story, 50x112 feet, slate roof, cement and wood floor, steam heating, electric lighting, tile and marble work. Plans in progress.

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Leaded Glass
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in Hard Metal.
Newer Designs.
Best Materials.
Better workmanship.
Better prices.
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Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 17, 1920. Sealed Proposals will be opened in this office at 3 P. M., July 15, 1920, for alterations, etc., to the United States post office and custom house at Oswego, N. Y. Drawings and specifications may be obtained from the Custodian at the building or at this office, at the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

(Continued from Page 576.)

which may be recovered in a civil action brought by the United States."

But whatever the intent, we may take it for granted that because of the fact that the method of distribution of cars for loading one particular commodity during a car shortage period is specially mentioned in the bill and a penalty attached for failure to conform, the railroad officials will play safe and see to it first that open top cars are furnished the coal mines. Inasmuch as the shippers of mineral aggregates must use the same class of equipment, you will readily understand that there is great danger the construction industry will suffer from the same discriminatory practices in the matter of distributing cars to material producers as prevailed previous to and in many instances during Federal control.

Furthermore, the Esch-Cummins Bill gives unrestricted authority to the Commission in times of an undefined emergency to suspend, with or without notice or hearing, all rules and regulations or practices with respect to car service for such time as it may determine. This provision may easily lead to orders being promulgated giving reference to the movement of certain commodities, such as coal, grain, or sugar beets with the consequence that other shipments would be curtailed. And, if we may judge by past experience, building materials will be the first to be affected by such procedure.

These I may designate as some of the traffic problems confronting the construction industry by virtue of the Transportation Act of 1920. But regardless of what may be our anticipated transportation difficulties, we must recognize that our chief traffic problem arises because of inadequate railroad equipment, with the further disadvantage that the available equipment is not proportionately distributed among the carriers.

There is no other factor, not even the labor situation, that affects adversely the progress of construction activities to a greater extent than the irregular delivery of materials. It is largely responsible for the increased cost, and consequently the postponement, of all forms of building work. Unless there is a speedy improvement in the transportation service accorded the shippers of building materials it is going to bring disaster, not only to the construction industry but to the country at large, for the people cannot continue to endure the hardships that are brought upon them because of the housing situation and the ever-increasing cost of living, due largely to the inordinate expense of distributing food products because of the condition of our highways, and to restricted production of other essential articles on account of delay in construction of factories.

Since it appears that the supply of cars and locomotives cannot be readily increased, it is incumbent upon the members of the construction industry, as a means of self-preservation, as well as a public service, to do their part in relieving the situation. For instance: The owners and public officials having charge of construction work should award contracts early in the year, so that advantage may be taken for the delivery of materials in the spring months, when the supply of both open top and box cars is usually more plentiful. Contractors should arrange for early deliveries and prompt unloading, and provide for storage at points of delivery and on the site of the job whenever practicable. Producers of materials should load promptly and to maximum capacity, trace shipments, and report to railroad operating officials any unnecessary delays in movement.

Before concluding I wish to refer to the well-known fact that under the Act to Regulate Commerce (as amended) all shippers are guaranteed the same consideration as to transportation service, regardless of locality or any particular description of traffic. This non-discriminatory feature of our railroad regulatory laws has not been annulled by the Transportation Act of 1920, unless perchance it be in interpretation and in the administration of portions of Section 402, already mentioned.

The construction industry is second only to that of agriculture in its importance to the public welfare and progress of the nation, in the amount of investment and the number engaged therein. There is no reason, therefore, why the transportation rights and privileges of the various components of this great industry should not be respected if they will but unite their efforts in gaining the same recognition for their business as have the shippers of other commodities, with whom they must contend for their proportionate share of the available railroad equipment. It is obvious, furthermore, that the Federation of Construction Industries, both as an organization and through its individual association members, should exert every reasonable effort, and show willingness to work harmoniously with the railroad officials in order to bring about the best possible transportation service under existing conditions. But if this offer to co-operate should fail then the next step will be, with a solid front, to seek redress through the Interstate Commerce Commission to the end that fairer treatment may be secured than has been given the construction industry during the period of or since the termination of the war.

INTERESTING LEGAL DECISION

THE Supreme Court of Ohio recently held that material men and workmen have a prior claim to that of a bond company when the latter completes a construction operation after failure of contractor. The decision, which reverses the finding of the lower courts, was made in connection with an Akron operation where the contractor failed to complete the work and the bonding company under the terms of its bond undertook to finish the job. The original contractor had been paid $25,000 on a $40,000 contract when the bonding company took over the work. Claims totaling about $13,000 were filed against the balance held by the owner by material men and workmen and were allowed before the bonding company's claim to the unexpended portion of the original contract.

PEP PARAGRAPHS

Pep is the soul of progress.

A man who thinks himself of little importance usually is.

Some folks spend so many nickels that they never have a dollar.

One working honey-bee is worth a whole swarm of maybe's.

All the worry in the world won't coax in enough 'cush to feed a canary.

If you want to preserve the relation of buyer and seller, don't get too personal.

Just because a man pays for your time is no reason to assume that he pays for nothing else.

The difference between a tight-wad and a nut is that you can crack a nut and make it shell out.

Whether you rise by the alarm clock does not matter; to rise to the occasion is what lands the orders.

Let the little Gold Dust Twins do your housework, but you rustle out and earn the mazuma to pay them with.

Hot air is a fine thing in its time and place, but dont shoot it' when the other fellow's already het up.

Air castles are simply air castles, unless you build them of thought, plans determination and hard work; then they become castles of granite.

(Copyright, 1920, by S. A. Chandler.)

Portland Cement, Sand or Gravel by carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

THE Philadelphia Operative Builders' Association maintains that "Rentals have not kept pace with the cost of construction, therefore investors will not put their money in investment buildings until such time as the returns received from buildings are increased sufficiently to show a return on the present cost of construction. In substantiating their claims that real estate values must be based upon cost of replacement, the association argues that "the cost of constructing dwelling houses at the present time shows an average of 150 per cent. above the normal price, taking 1914 as a basis for comparison.

"We are not producing a normal supply of buildings, taking into account dwellings, hotels, apartments, office buildings, store buildings, warehouses, factories, amusemenit buildings, etc., and with the great shortage which exists at the present time it is not likely that there will be an over-supply for at least ten years, and under these conditions there can be no reduction in the cost of producing real estate.

The following are some of the items which enter into the cost and indicate clearly that real estate values must be based on the cost of replacement:

CONSTRUCTION COSTS

Labor

	1914	1920
Common Labor	$0.17½ per Hour	$0.55½ per Hour
Carpenters	.40 "	1.12½ "
Carpenters' Laborers	.20 "	.60 "
Plasterers	.50 "	1.25 "
Plasterers' Laborers	.35 "	1.10 "
Bricklayers	.50 "	1.30 "
Bricklayers' Laborers	.35 "	1.10 "
Stone Masons	.45 "	1.30 "
Painters	.40 "	1.00 "
Roofers	.40 "	1.10 "
Roofers' Helpers	.25 "	.70 "
Cement Finishers	.50 "	1.00 "
Cement Laborers	.20 "	.60 "
Tile Setters	.65 "	1.00 "
Tile Setters' Helpers	.40½ "	.80 "
Plumbers	.44 "	1.15 "
Plumbers' Helpers	.20 "	.75 "

MATERIAL

Bricks	$7.00 1,000	$22.00 1,000
Rough Lumber	20.00 1,000 ft.	65.00 1,000 ft.
Flooring	30.00 "	125.00 "
Lath	5.00 "	17.50 "
Builders' Lime	.25 Bus.	.65 Bus.
Prepared Plaster	2.00 Bbl.	5.60 Bbl.
Jersey Gravel	1.70 Yard	3.30 Yard
Bar Sand	1.70 "	3.30 "
Nails	3.00 Keg Base	7.50 Keg Base
Sash Cord	.55 Hank	1.75 Hank

MATERIAL AND LABOR—SUB-CONTRACTS

Hardware	Increase	200%
Plumbing	"	200%
Heating	"	150%
Painting	"	125%
Paperhanging	"	150%
Parquetry Floors	"	200%
Roofing	"	100%
Metal Work	"	200%
Electric Wiring	"	200%
Millwork	"	300%
Plastering	"	150%
Gas Ranges	"	200%
Excavations	"	200%
Stonework, Rough	"	200%
Face Stonework	"	200%

In further support of its contention the Operative Builders' Association quotes the following extracts from *The New Price Revolution,* by Irving Fisher, Professor of Political Economy, Yale University:

It is interesting to observe that many manufacturers think that prices must come down, including the price of labor; but they are ready to demonstrate to you that their own prices cannot come down, nor can they pay lower wages. Almost everything they buy somehow costs twice as much as before the war, and their labor is twice as dear. They cannot pay their labor less if labor is to meet the increased cost of living. Now, as a matter of fact, when we investigate almost any individual one of the so-called high prices for industrial products we are likely to find that individually it is not high; that is, it is not high relatively to the rest. Our quarrel is with the general level of prices.

"The fundamental practical question confronting business men is whether the general level of prices is going to fall. In my opinion, it is not going to fall much, if at all. We are on a permanently higher price level, and the sooner the business men of the country take this view and adjust themselves to it the sooner will they save themselves and the nation from the misfortune which will come if we persist in our present false hope.

"The country's volume of money will have to be judged in terms of this new price level, not in terms of a price level that is past.

"At the present time European goods are not 'low priced.' Prices in Europe since the war began have risen more than they have in the United States.

"Business men should face the facts. To talk reverently of 1913-14 prices is to speak a dead language today. The buyers of the country, since the armistice, have made an unexampled attack upon prices through their waiting attitude, and yet price recessions have been insignificant. The reason is that we are on a new high-price level, which will be found a stubborn reality. Business men are going to find out that the clever man is not the man who waits, but the one who finds out the new price facts and acts accordingly."

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.

THE Structural Service Bureau, executive offices in Philadelphia, with D. Knickerbacker Boyd as its Architectural Advisor and Structural Standardist, is a direct outgrowth of Mr. Boyd's associations with the War Industries Board in structural problems. The activities of the Bureau according, to its officers, are devoted "to creating a greater, safer and more efficient use of building materials, equipment and devices through a better understanding of their nature, manufacture and utilization.

It acts as a point of contact between the professon of Architecture and Industries allied with it. It embodies. to the fullest extent possible, the viewpoints of the designers of buildings and specifiers their construction, of the producers of raw and finished structural materials, and of the ultimate consumer, the owner.

It stands for the co-ordination of structural activities, the correlation of data relative to the building industries and for a continuation of the conservation and standardization measures so well begun during the war.

The Bureau is at the service of producers and manufacturers of building materials which are not imitations of nature's products and which, used as structural members or for exterior finishing, are not inflammable. It not only acts as advisor from the professional and technical standpoint, but co-operates in the study of production facilities, aiming to develop them still further in accordance with architectural principles and specificational requirements.

It thus renders to its clients and, through them, to other industries whose products are accessory to theirs, and to the architectural and allied professions and crafts, a type of service heretofore unobtainable.

The Staff of the Structural Service Bureau is composed of those qualified in Architecture, Engineering, Building Construction, Town and Regional Planning, Housing and Public Information.

Irrespective of consultation, reviews of informative literature, building code data and other personal services in individual cases the services of the organization include:

Visits to the sources of production, and study of manufacturing methods and details.

Recommendations for tests to definitely determine various characteristics.

The development of new uses and improvements upon old wherever possible.

The study of shapes, sizes, thicknesses, weights and space requirements.

Establishing means of identification for requisite classifications and grades.

Standardization for prevention of lost motion and wasted material and for lessening the number of patterns, types and finishes.

Preparation of basic specifications and detailed drawings for the most advantageous use and the best methods of installing each particular product.

An unusual and complete method of reference filing permits quick access to a collection of data on structural matters, the result of years of painstaking accummulation, including:

All Governmental publications, with Standard Specifications and Details of Construction from National, State and Municipal Authorities.

Building Codes and Regulations of States and all Principal Cities.

Proceedings and other publications of all Professional, Technical, Industrial and Commercial Societies or other organizations interested in Structural matters.

Everything issued, for many years past, by the producers and manufacturers of every kind of building materials.

It was Mr. Boyd's unusual experience with the U. S. Housing Corporation and the War Industries Board which led to his retention as Architectural and Structural Standardist, by some of the important building materials industries of the country. Mr. Boyd will strive through this agency to bring about the fullest cooperation between the Architects and Industries in the solution of problems affecting each through a better understanding of the nature, manufacture and application of materials and equipment.

PEP PARAGRAPHS

Thought is the best brain food.

It takes stuff to pull a bluff.

A smile is a tonic; a frown is a disease.

Pippins fall for the guys who go after them.

Train the mind how it should go and it'll proceed of its own volition.

Don't bank too much on the other fellow, for he might be banking on you.

Don't call down anyone until you first call up and make sure that they're wrong.

Success or failure is largely the small matter of keeping your gou-go a little under your income.

Put everything where it belongs; the pretty girl up in the front office, the crabbed old maid well out of sight.

A scrambled egg in a sandwich is all to the gravy, but a poor egg whose brains are scrambled is good for nothing.

Keep your desks cleared for action; dispatch business as soon as it comes in, then you'll be ready for anything that turns up.

"Aw, leave it to dat guy to go us one better!" If they're saying that about you, you aren't worrying none about the soda fountain tax.

(Copyright, 1920, by S. A. Chandler.)

The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.

We'll *write* your advertising without charge. All we ask is that you pay for the space and provide our ad. man with the necessary selling pointers.

* * *

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

* * *

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it To be out of sight in the commercial world is to be out of mind.

* * *

People who want to buy things do not catch the seller, chloroform him and cram the orders into his pocket.

Advertising is the proper education of the public as to where the thing can be found, and therefore it is a necessity.

We are parts and particles of each other, but a little of the kindly glue of human brotherhood is needed to fasten us together. The policeman who keeps the crossing clear, and at the same time informs us as to the location of the post office and the First National Bank, no doubt is, in one sense, an economic waste. On the other hand, he is an economic necessity. He is a necessary middleman.

He relieves the congestion of traffic and granting the hypothesis that he does not misdirect us as to the location of the post office, he speeds us on our way.

If your sales-talk is keyed to interest men who build it should occupy space every week in the "Guide," the only building magazine this side of Manhattan Island.

I make it a rule never to write a grouchy letter—I telephone.

If you want Trap Rock or Slag, any size or grit, we are headquarters for same. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co., Real Estate Trust Bldg., Phila.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.
Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

ARTESIAN WELL PUMPS.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BELTING
Bond, Chas., Co.....617 Arch St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
National Blue Print Co. .....38 S. 6th St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
National Blue Print Co. .....38 S. 6th St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BRICK (Tapestry, Face, Common, Paving).
Collingdale Brick Co....Franklin Trust Bldg., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Pomeroy Const. Co. .....1609 Ranstead St., Phila.

BUILDERS' CANVAS.
Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

BUILDERS' SUPPLIES.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.

CEMENT.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Lehigh Portland Cement Co....Finance Bldg., Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.

CEMENT WORK.
Carter Paving Co.....639 N. 18th St., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Barrett Co., The.....New York and Philadelphia
Phila. Mineral Flooring Co..5632 Summer St., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Carter Paving Co. .....639 N. 18th St., Phila.

CONTRACTORS' EQUIPMENT.
Service Equipment Co. .....Bourse Bldg., Phila.

DAMPPROOFING.
Barrett Co., The.....New York and Philadelphia
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.

DRAWING MATERIALS.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

ELECTRICAL APPLIANCES.
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.

ELECTRICAL CONSTRUCTION.
Baird-Osterhout Const. Co..1620 Chancellor St., Phila.
Buchanan & Co., J. F.....1719 Chestnut St., Phila.

ELEVATORS.
A. B. See Electric Elevator Co., Colonial Trust Bldg., Phila.

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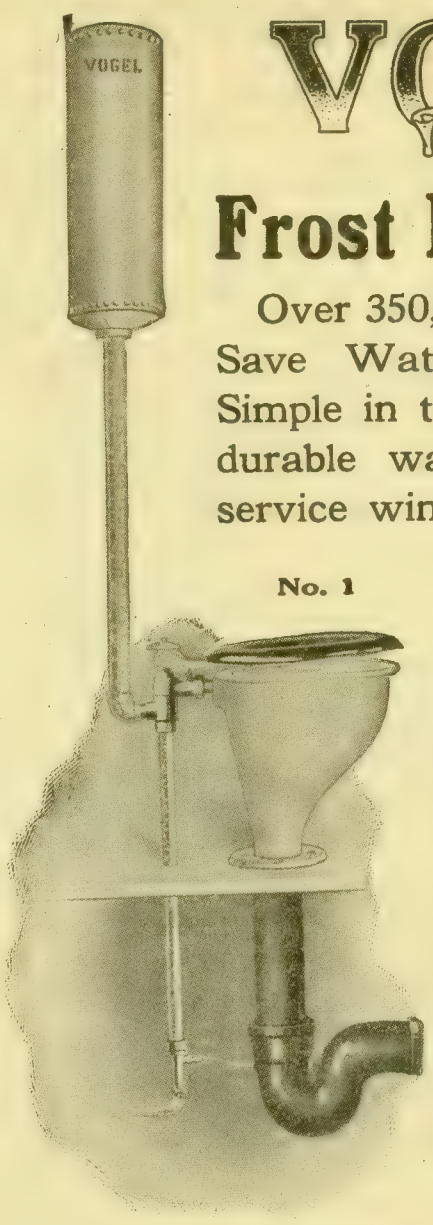
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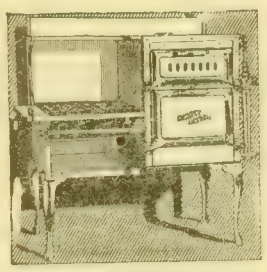
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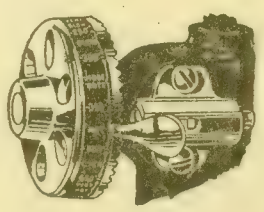
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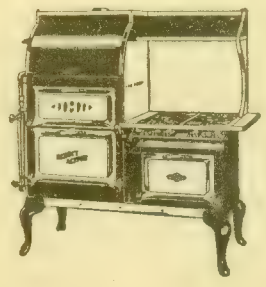
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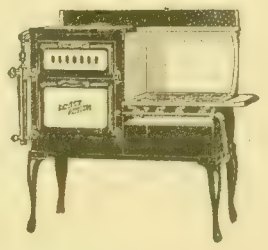
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June 30, 1920

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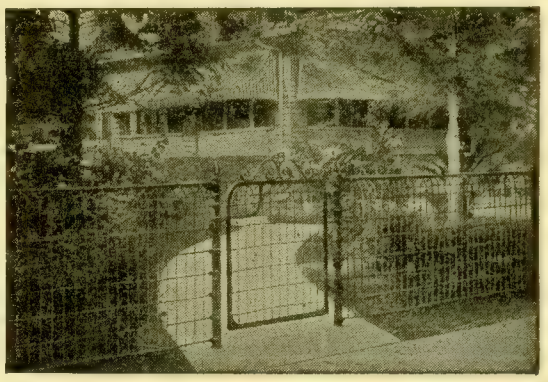
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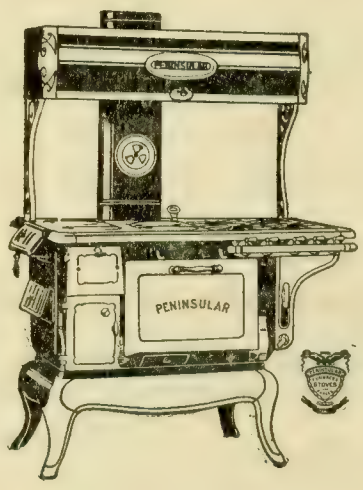
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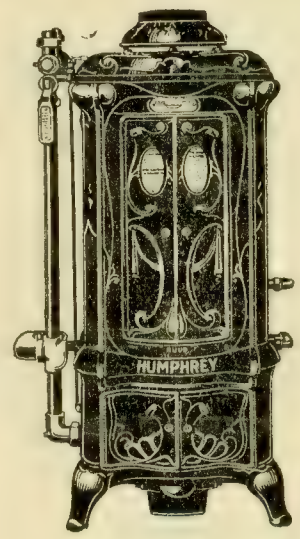
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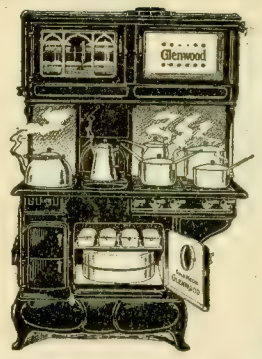
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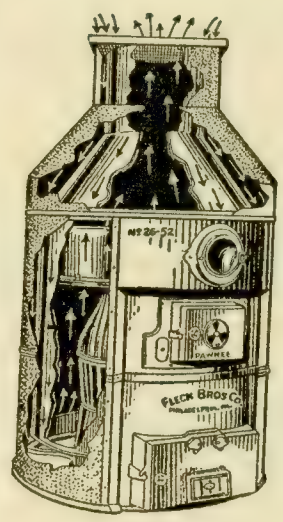


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As The Editor Sees It

WE believe that too much emphasis cannot be laid on the necessity for greater efforts toward fire prevention. This feeling is spreading throughout the country and the study of fire prevention has been added to the curriculum of the New York public schools by the Board of Education. The board has adopted as a basis for regular study the school manual entitled "Safeguarding the Home Against Fire," prepared for the United States Bureau of Education by the National Board of Fire Underwriters.

Emphasis will be laid in the instruction upon the fact that a fire occurs in New York City on an average of every twenty-one minutes, day and night, with "most of these due to carelessness, according to engineering experts." Many of the fires occur in homes and so many are attended by injury or loss of life that it has been estimated that about 100 persons are burned to death in Greater New York each year and many more seriously injured.

Making this study compulsory is following the example of many other communities. Kentucky has had a statute for some time making the study of fire prevention compulsory, and the last New Jersey Legislature passed a law providing for this study in September. In Minnesota it is also planned that pupils and teachers should study the subject before the close of the school year.

The National Board of Fire Underwriters through its manual, "Safeguarding America Against Fire," has recently given out some interesting data concerning fire prevention on the farm. The manual says in part:

Experience has shown that fire prevention should be universally practiced. The farmer, however, should give special attention to the elimination of fire hazards and the adoption of protective methods. This is true for several reasons. In the first place, his house, barn and outbuildings are usually constructed of combustible materials; being more or less isolated they are subject to lightning strokes; kerosene and gasoline are likely to be stored about the premises and used for light and power; he must fill his barn with hay, straw and feed which are subject to spontaneous combustion, and, last but not least, he is usually outside of the protection of a fire department. Too often a fire once started in a farm building results in a total loss, while the owner stands sadly by with his family and his neighbors, and wishes that he had taken some of the precautions which he had been considering.

In laying out a farm property, therefore, the different buildings should be well separated, so that a fire occurring in one will not mean the certain destruction of all the others. There are various features of dwelling construction, which, although costing slightly more than ordinary work, make for greater safety to life and property from fire. Among these are the use of incombustible roofing material in place of wooden shingles; provision for two stairways in different parts of the house; enclosing stairways, particularly a rear stairway that enters the kitchen, and fire-stopping between floors. All these items, with the exception of the fire-stopping, are matters that can be arranged even in long-standing structures, if the farm owner is sufficiently interested in safeguarding the lives of his family.

Among the most prolific causes of fires on farms are lightning, defective chimneys and flues, unprotected stoves and the careless handling of kerosene and gasoline.

As compared with the aggregate losses on all dwellings, the farm total represents 29% of the whole, while the number amounts to 18.1% of all residential fires.

The statistics cover only the losses reported to the National Board and do not embrace the thousands of fires upon uninsured farms or those insured with mutual companies not reporting to this organization.

As might be expected, the heaviest loss from known causes, $3,933,950, is due to *lightning* striking unrodded buildings, although experience indicates that a *properly* rodded structure is practically im-

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mune against a harmful visitation from this element.

Defective chimneys and flues hold second place as a cause of farm fires, with aggregate losses of $1,962,031, while *sparks on roofs* stand third, with $1,181,171. The damage from *sparks on roofs* serves to accent again the property destruction due to the prevalence of wooden shingle roofs in the rural districts.

Exposure is responsible for losses of $1,111,381, but this is a result of fire, and not of primary cause.

Matches-smoking cause almost as much damage as *exposure,* the aggregate losses being $1,071,987 from 1,445 fires. *Petroleum and its products* are found to be responsible for losses of $732,067.

The seriousness of *spontaneous combustion* is indicated by the total losses during 1918 of $715,151 on farms throughout the country. The toll from *incendiarism* was $107,837.

It is noteworthy that the total losses from *electricity,* the chief cause of fire in the combined occupancies of all kinds, are comparatively unimportant on farms, amounting to only $239,063. This apparently indicates that this hazard has not yet assumed serious proportions in the agricultural districts. It is believed, however, that since the close of 1918 there has been rapid progress made in the introduction of individual electric light and power plants and that from now on this development will be reflected in rural fire losses. Electric systems when properly installed according to the National Board's Electrical Code, are the safest known means of light and power; the hazard lies in the activity of amateur electricians and the in the carelessness of the users of current and the various attachments.

The smallest reported loss, $703, is due to *steam and hot water pipes.*

It has been mentioned that damage from lightning may be readily prevented. During one Summer month, for example, there were 191 lightning fires reported in the Province of Ontario, but only two involved rodded buildings, and it is probable that they were not properly equipped. A rod that is broken or that is not correctly installed actually increases the lightning hazard.

Not only should the house, barn, silo and all other structures be rodded, but wire fences should be "grounded." Horses and cattle frequently drift along with a storm until they come to some barrier. This is likely to be a wire fence which becomes charged with electricity under certain storm conditions. If the fence in the open field is well grounded at least every ten rods, and at every corner in yards, a lightning stroke will be carried harmlessly into the ground.

To quote from the "Suggestions of the National Board of Fire Underwriters for Protection Against Lightning:"

"The ordinary condition causing a lightning discharge is a cloud charged with electricity at a greatly different potential from that of the earth. The difference of potential is finally sufficient to 'break down' the stratum of air between earth and cloud, and an electrical discharge takes place. The resistance of the air stratum being generally less betweeen cloud and tops of buildings and other structures than between cloud and earth, such high points take the discharge, and unless some less resistive path is provided from these points to the ground than the structure to be protected, the lightning will follow the next best course to earth, generally causing damage to the structure and frequently starting a fire.

"It is therefore desirable to locate the conductors forming the lightning protection so that the lightning will strike these and be carried to earth instead of tearing through the structure on its way to the ground."

This booklet also states that only two ground terminals are needed where the required number of air terminals is not more than six, but that it is good practice to provide an extra ground terminal so as to avoid "dead-ended" conductors.

Where wire fences are grounded, a rod or cable equal to three number twelve wires, or one number nine, of the same material as the fence wires, should be used to connect up each lateral wire of the fence, and it should extend at least three feet into the ground. If the ground wires are allowed to project a few inches above the fence they will prevent strokes in their vicinity in the same manner as points on a building.

Where fences are connected with a building, they should be grounded at the first post from the structure, and, in addition, the ground rod of the building should be connected with the fence.

In addition to the special hazards incident to farming, the farm has all the usual dwelling house fire dangers. Prominent among these are defective chimneys and flues with improper stovepipe connections, which stand out as the most frequent cause of interior fires. The heating and cooking plant is therefore one of the hazards that should first receive attention.

Ira H. Woolson, Consulting Engineer of the Committee on Construction of Buildings, of the National Board of Fire Underwriters, and an authority upon the subject, says, in a pamphlet upon dwelling house fire dangers: "A considerable part of the chimney hazard is due to carelessness and the balance to bad construction."

Flue holes, when not in use, should be closed with tight-fitting metal covers and never pasted over with paper. The smoke pipe, when put into place, should be provided with a ventilated metal collar having a diameter at least twelve inches larger than the pipe, which will prevent the heat of the pipe igniting adjacent woodwork. No bare smoke pipe should be within twelve inches of any woodwork, or any wooden lath and plaster partition or ceiling. A smokepipe will sometimes become red hot, especially when wood is used for fuel, and in this condition it is particularly dangerous. This is notably true where nearby woodwork contains pitch or has been painted. Many fires have occurred from this cause while the occupants of houses have been temporarily absent.

Smokepipes should never pass through floors or closets and should never enter a chimney in the attic or garret. This portion of the house is customarily a storehouse for old furniture, clothing and other combustible material and is usually lined with unprotected woodwork. If a pipe passing through this space should become overheated because of the presence of soot or any other cause, it is almost certain to start a blaze, and owing to the secluded location, the fire is likely to involve the whole attic before it is discovered.

Smokepipes, however used, should be securely held in position by means of heavy wires, and should be thoroughly cleaned at least once a year.

The flooring beneath stoves which stand upon legs should be protected by sheet metal extending forward at least twelve inches directly beneath the ash pit, and stoves resting directly upon the floor should be placed upon a foundation of either brick or cement four inches thick. The nearest wooden surface in the vicinity of stoves should be protected with sheet asbestos, iron or tin. If metal is used there should be an air space left behind it. Open fires should always be screened.

Accelerating a sluggish fire with kerosene would seem to be a practice foreign to present-day intelligence, yet it is a form of most dangerous carelessness that is indulged in with surprising frequency, as the records clearly show. A recent regrettable case concerned a four-year-old boy who was seriously burned while pouring kerosene into a stove from a cup as "he had seen his parents do." The practice cannot be too strongly condemned.

In the disposal of ashes, it is important that metal receptacles be used and not wooden barrels or boxes, since supposedly defunct coals often prove to be very much alive. Damp clothing should

(Continued on Page 610.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Ridley Park, Pa. Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x40 feet, slate or shingle roof, stone foundations, electric lighting. Plans about completed.

School (toilet add.), East Haines and Morton streets, Germantown, Philadelphia. Architect, Charles C. Cummiskey, Real Estate Trust Building, Philadelphia. Owner, Holy Rosary Italian Roman Catholic Church, East Haines street, Germantown. Brick, 1 story, 15x24 feet, slag roof, cement floor, plumbing and stone wall, 25 feet long. Architect has received bids.

Elevator Hatch, Harris Building, Seventh and Arch streets, Philadelphia. Engineer, Stewart A. Jellet Co., Real Estate Trust Building, Philadelphia. Owners, Lit Brothers, Seventh and Market streets, Philadelphia. Brick and steel, 7 stories, 21x12 feet, slag roof, stone foundations, hollow metal skylights, waterproofing, iron work. Owners taking bids due July 1st. Smith-Hardican Co., 1606 Cherry street; John Gill & Co., Otis Building; Keystone State Const. Co., Franklin Bank Building, and Lam Building Co., 1001 Wood street, are figuring.

Sunday School, Sixty-first and Oxford streets, Philadelphia. Architects, Druckenmiller & Williams, 1527 Chestnut street, Philadelphia. Owners, Third Christian Church, on premises. Frame and plaster, 1½ stories, 103x42 feet, wing 17x61 feet, shingle roof, pine floors, stone foundations, electric lighting, hollow metal skylights, iron work. Architects taking bids due July 9th. Thomas C. Trafford, 1613 Sansom street, and Tourison & Tourison, 1011 Chestnut street, are figuring.

Residence, 332 Delancey street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, M. Oamita, 314 Delancey street, Philadelphia. Brick, 3 stories, 20x70 feet, slag and tile roof, pine and hardwood floors, mill work, stone foundations, hot water heat, electric light, tile work, hollow metal skylights. Owner taking bids. I. Shunsky, 301 Delancey street, is figuring.

Stores and Apartments (2) and Garage, 4752-54 North Eleventh street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, J. Witsky, on premises. Brick, 2 stories, 18x65 feet, and 1 story, 30x30 feet, slag roof, hardwood and cement floors, concrete work, metal ceilings, plate glass, flush bulks, tile and marble work, hot water heat, electric light, stone foundations. Owner taking bids. N. Litman, 2030 Soth uFifth street, is figuring.

Garage, 3947-49 Lancaster avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, George B. Davis, 3930 Lancaster avenue, Philadelphia. Brick and steel, 1 story, 64x28 feet, slag roof, cement floors, hollow metal skylights, iron work, stone foundation (heating, electric lighting and plumbing separate bids). Architect taking bids due July 1st. Joseph Brown, 3816 Lancaster avenue; H. John Homan, 34 South Seventeenth street; James Johnston, 1721 Ludlow street; Thomas C. Trafford, 1613 Sansom street; Warren E. Biscoe, 3954 Ludlow street, and Harry P. Waters, care of architect, are figuring.

Store Building, 3926-28 Lancaster avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, George B. Davis, 3930 Lancaster avenue, Philadelphia. Brick and steel, 1 story, 75x28 feet, slag roof, maple floors, metal lath, roof ventilators, iron work, hollow metal skylights, marble and terrazzo work, stone foundations (heating, electric lighting, plumbing and bulks separate bids). Architect taking bids due July 1st. Joseph Brown, 3816 Lancaster avenue; H. John Homan, 34 South Seventeenth street; James Johnston, 1721 Ludlow street; Thomas C. Trafford, 1613 Sansom street, and Warren E. Biscoe, 3954 Ludlow street, are figuring.

Mattress Factory, Spec. 4163, Navy Yard, Philadelphia. Architect, United States Government, Bureau of Yards and Docks, Washington, D. C. Owner, United States Government, Bureau of Yards and Docks, Washington, D. C. Reinofrced concrete and steel, 2 stories, 240x60 feet, slag or asphalt roof, hollow tile, metal lath, elevators, safety treads, roof ventilators, stone foundations, steam heat, electric lighting, rolled steel sash, hollow metal doors, fire escapes, iron work. Lowest bidders: Michael Melody & Son, 1322 Race street, Philadelphia, $170,680, 175 days; Thomas Reilly, 1616 Thompson street, Philadelphia, $176,943, 210 days.

Ticket Office (alts.), 223½ South Broad street, Phila. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Conway's Ticket Office, on premises. Carpentry, marble work, pine floors, plastering, metal lath, glazing, painting, electric work, hardware. Architect has received bids.

Office Building (add.), South Penn Square and Broad street, $2,500,000. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Finance Co. of Pennsylvania, on premises. Steel, brick and terra cotta work, 21st to 32nd floors, 90x78 feet, 32nd floor, 36x92 feet, terra cotta roof, steam heat. Permit granted.

Supplies, Lardner's Point and Torresdale, Pa. Owner, City of Philadelphia, Department of Public Works, Bureau of Water, care of J. C. Wagner, Acting Director, Room 788, City Hall, Philadelphia. Construction material, lumber, cement, sand, fire brick, stone, etc., 16-inch and 24-inch valves, turbo-centrifugal, condensate pump. Owners taking bids due July 8th at noon, Room 216, City Hall.

Fire House, Uber and Callowhill streets, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Department of Public Safety, City Hall, Philadelphia. General alterations. Owners taking bids due July 12th at noon.

Police Station, Tacony and Longshore streets, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Department of Public Safety, City Hall, Philadelphia. General alterations. Owners taking bids due July 12th at noon.

Administration Building (alt.), Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, Frankford Arsenal, care of Major Lumsden. Metal lath, plastering, painting, hardware, carpentry, mill work. Owners have received bids.

Buildings (alts.), 300-02 North Broad street, Philadelphia. Architect, W. Frisbey Smith, Broad and Arch streets, Philadelphia. Owner, H. Pressman, on premises. Steel and brick work, carpentry, iron work, plastering, electric lighting, heating repairs, plate glass, metal bulks, painting, hardware. Architect taking bids due July 2nd. Kober Const. Co., 34 South Seventeenth street, is figuring.

Custom House (alts.), Chestnut below Fifth street, Philadelphia. Architect, private plans. Owner, Custom House, care of Custodian Officer, on premises. Steel work, metal covered doors, hardware, wiring. Owners taking bids due July 7th. Lam Building Co., 1001 Wood street, and Kober Const. Co., 34 South Seventeenth street, are figuring.

Store (int. alts.), 912 Chestnut street, Philadelphia. Architect, John C. Brugger, 505 Chestnut street, Philadelphia. Owner, Library Bureau, on premises. Interior alterations, re-

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Frankford Elevated Work, Contracts Nos. 572, 574 and 119, Philadelphia. Architect, private plans. Owners, City of Philadelphia, City Transit Department, William S. Twining, Director, 1211 Chestnut street, Philadelphia. Track construction Contract No. 572, 7,286 lineal feet of single track and 2 cross-overs. Contract No. 574, station platforms and shelters on Frankford avenue at Pratt street, reinforced concrete plaform, underpassage floors, stairways, wood roofs covered with asphalt and felt roofings, copper work, steel sash, steel enclosure. Contract No. 119, paving, granite block, gravel base in Arch street at Thirteenth street, and wood block on concrete base in Broad street south of Filbert. Owners ready for bids due July 6th at noon.

Various Schools (alts.), Philadelphia. Architect, private plans. Owners, Board of Education, J. H. Cassell, Superintendent of Buildings, Nineteenth above Chestnut street. Alterations and additions, plumbing, heating, electric work, general repairs, roof repairs, painting, pointing, paving, plumbing and water meters. Owners taking bids due July 8th.

Stores and Dwelling (alts. and add.), 1402-04-06-08 Erie avenue. Architect, Carl P. Berger, South Penn Square Building, Philadelphia. Owners, Waverly Realty Co., care of architect. Carpentry, mill work, plastering, plumbing, repairs to tin roof, floor repairs, metal lath, ornamental iron work, stone foundations, steam heat, electric lighting, tile work, hollow metal skylights. Architect taking bids. John Schnable Co., Denckla Building, and A. L. Fretz & Son, Heed Building, are figuring.

Rectory, Fiftieth and Master streets, Philadelphia. Architects, H. Rex Stackhouse and Harry Parker, 129 South Fifth street, Philadelphia. Owners, Roman Catholic Church of Our Lady of Angels, care of Rev. Victor Strumnia, D. C., on premises. Stone and brick, 2½ stories, 27½x47 feet, slate roof, hardwood floors, stone foundations, hot water heat, electric light, tile work, plumbing. Architects and owner are ready for sub-bids.

Residences, 2128-30 West Cambria street, Philadelphia, $5,000. Owners, John Negro & Sons, 2844 North Van Pelt street, Philadelphia. Brick, 2 stories, 15x26½ feet, 12x19 feet, slag roof, pipeless heating, pine floors, electric lighting. Owner will build.

Nurses' Home, 1735 North Fourth street, Philadelphia, $100,000. Architect, private plans, care of J. Oliver, Fifth and Montgomery avenue. Owners, John B. Stetson Co., Fifth and Montgomery avenue, Philadelphia. Brick and steel, 4 stories, 60½x39 feet, slag roof, steam heating, electric lighting. Owner will build.

Experimental Shop Building, Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Brick, concrete and steel, 3 stories, 200x60 feet, slag roof, maple floors, metal lath, elevators, waterproofing, iron work, kalamein doors, rolled steel sash, stone foundations (heating and electric work reserved). Lowest bidder: Michael Melody & Son, 1322 Race street, $246,604, 260 days.

Station Platform, Cont. No. 571, Hunting, Tioga street and Torresdale Frankford Elevated. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Steel, concrete, steel sidings, wood, slag or asbestos lumber roof, copper work, galvanized work. Lowest bid submitted by F. J. Boas, 201 North Broad street, $102,450.

Dairies, Kensington avenue and Hunting Park avenue, Torresdale, Philadelphia. Architect, William H. Timm, Perry Building, Philadelphia. Owner, Harbison Dairies, Front and Diamond streets, Philadelphia. Brick and steel, power house, 2 stories, 96x48 feet, wing 16x32 feet, stable, 2 stories, 144x80 feet, main building, 2 stories, 80x41 feet, slag roof, cement and terrazzo floors, metal lath, rolled steel sash, steel doors, waterproofing, iron work (heating, electric work and plumbing reserved). Architect taking bids due July 6th. Warren-Moore Co., Colonial Trust Building; Barclay White Co., 1713 Sansom street; Cramp & Co., Denckla Building; H. E. Baton, 1713 Sansom street, and Turner Const. Co., 1713 Sansom street, are figuring.

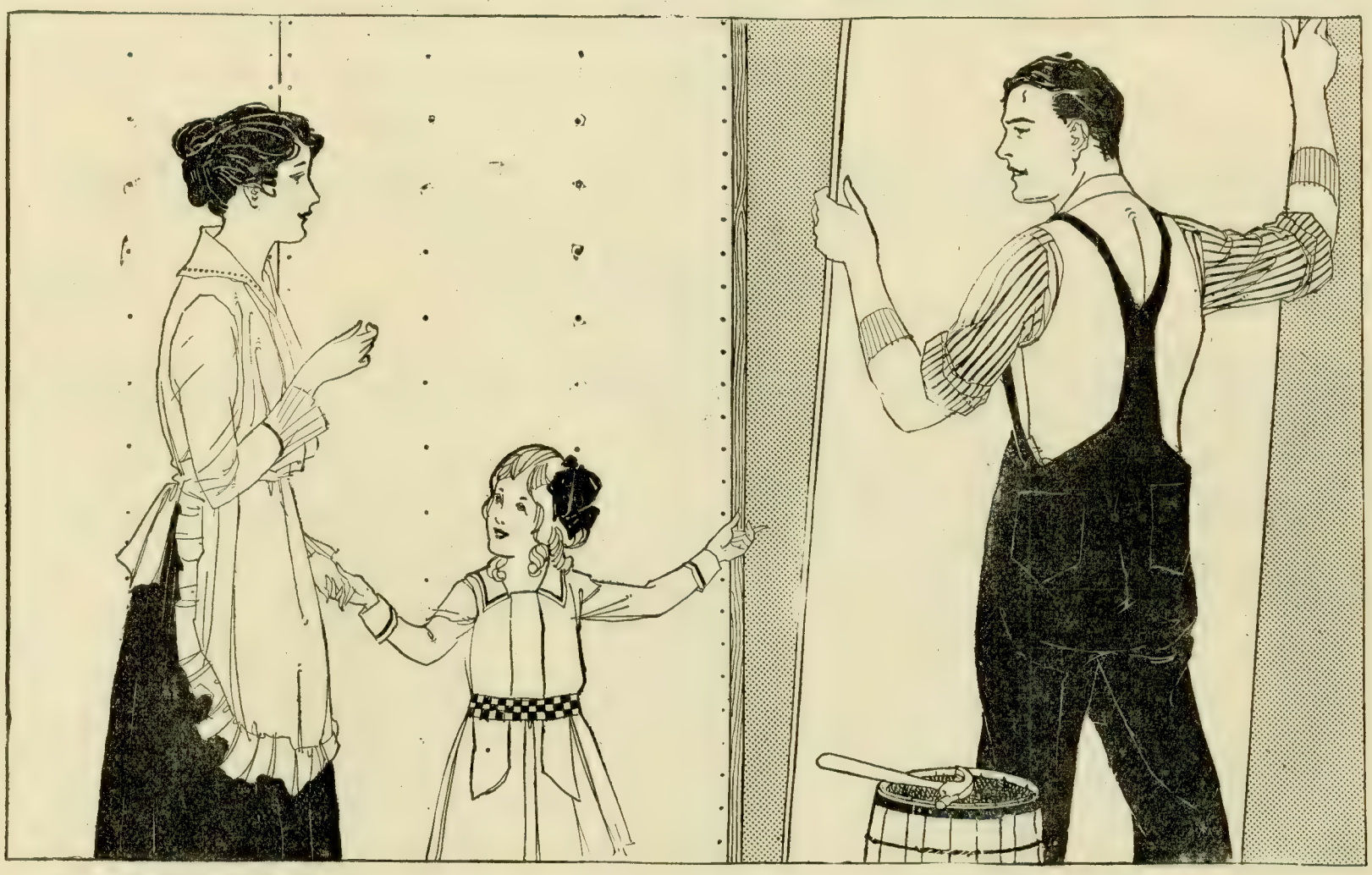
Elevated Work, Cont. No. 573, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Lowest bid submitted by Robert E. Lamb Co., 843 North Nineteenth street, $163,000.

Elevated Station, Cont. No. 560, Northeast Corner Front and Fairmount avenue. Architect, private plans. Owners, City of Philadelphia, care of Director William S. Twining, 1211 Chestnut street. Concrete, terra cotta and steel, 1 story, 61x18 feet, slag roof, tile and gypsum roof, cement and terrazzo floors, hollow tile, marble work, rolled steel sash and skylights, steel doors, safety treads, roof ventilators, metal ceilings, iron work. Lowest bid submitted by Standard Const. Co., 1713 Sansom street, $36,850.

Dwelling, Southeast Corner Clarkson avenue and York road, $38,000. Architect, private plans. Owner, William M. Connery, 1709 Erie avenue, Philadelphia. Brick, 3 stories, 39x84½ feet, steam heating, electric lighting, hardwood floors, tile work, hardwood floors. Owner will build.

Residences (10), Oakley street, South of Princeton street, Philadelphia, $6,800. Architect, private plans. Owner, J. Charles Yundt, 301 Tabor road, Philadelphia. Brick, 2 sto-

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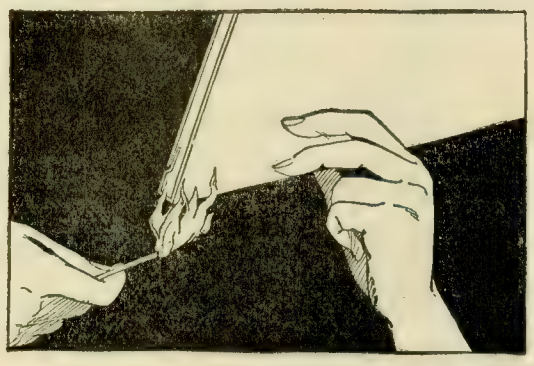
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ries, 24x28 feet, 7x7 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner will build.

Store and Hall, Southeast Corner Eighty-seventh and Erwig streets, Philadelphia, $18,000. Architect, private plans. Owner, W. V. Stusker, 2144 South Simpson street, Philadelphia. Brick, 2 stories, 40x60 feet, slag roof, pine floors, electric light, stone foundations, steam heating. Owner will build.

Warehouse and Alts. to Present Building, Palethorpe and Turner streets. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Keystone Spinning Mills Co., on premises. Reinforced concrete and brick, 2 stories, 95x60 feet, slag roof, concrete and composition floors, metal lath, safety treads, roof ventilators, dampproofing, iron work, fire escapes, fire doors, copper skylights, rolled steel sash, marble work, stone foundations. Architects taking bids due July 6th. Cramp & Co., Denckla Building; Ketcham & McQuade, 1029 Brown street; William R .Dougherty, 1610 Sansom street; Turner Const. Co., 1713 Sansom street; Barclay White & Co., 1713 Sansom street; Warren Moore Co., Colonial Trust Building, and P. Haibach Cont. Co., Twenty-sixth and Thompson streets, are figuring.

Club House Auditorium, 1530 North Sixteenth street, Philadelphia. Architect, H. C. Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, Disston Estate, Front and Laurel streets, Philadelphia. Brick and stone, 1 story and basement, 50x120 feet, slag roof, hardwood floors, stone foundations, steam heat, electric lighting. Will be ready for bids in a week.

Bank Building, Thompson, Ash and Kirkbridge streets, Bridesburg, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Bridesburg Branch of the Oxford Bank of Frankford, care of Oxford Bank, Overington street and Frankford avenue. Brick and terra cotta, 1 story and basement, 40x50 feet, slag roof, tile and composition floors, stone foundations, steam heat, electric lighting, tile and marble work. Architects will be ready for bids in a week.

Hotel Alterations, Twenty-second and Chestnut streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Rittenhouse Hotel, Twenty-second and Chestnut streets, Philadelphia. General interior renovation. Preliminary sketches in progress.

Storage Building (alts.), 447 North Eighth street, Philadelphia, $6,000. Architect, private plans. Owner, John W. Brown, 1217 Callowhill street, Philadelphia. General alterations. Owner will build.

Garage, 1317-19-21 South Newkirk street, Philadelphia, $4,500. Architect, George McCarthy, 1918 South Fifteenth street, Philadelphia. Owner, Joseph Condy, 2812 Wharton street, Philadelphia. Brick, 1 story, 45x49 feet, slag roof, hot water heat, electric lighting, cement floors. Owner will build.

Shed (add.), southwest corner of Fifty-sixth and Market streets, Philadelphia, $4,000. Architect, private plans. Owners, General Baking Co., 45 East Seventeenth street, New York City. Brick, 1 story, 33x86 feet, slag roof, cement floors. Owners will build.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alts.), Germantown, Philadelphia. Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Hot air heating, electric lighting, new partitions, hardwood and composition floors. Contract awarded to William C. Wright, 22 Harvey street, Germantown, Philadelphia.

Warehouse (alts. and add.), 533 Race street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owners, Sobel & Davis, on premises. Brick, 2nd story add., 15½x75 feet, slag roof, plank and concrete floors, stone work, elevator, rolled steel sash, hollow metal skylights (plumbing, heating and electric work reserved). Contract awarded to B. C. Sagel, 3110 Page street, Philadelphia.

Office Building (add.), Sixteenth and Sansom streets, Philadelphia, $80,000. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owners, McIlvain & Co., Otis Building, Philadelphia. Brick, reinforced concrete and terra cotta trimming, 13 stories, 30½x65 feet, Barrett roof, metal lath, electric lighting, dampproofing, marble and terrazzo work. Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Store Building (alts. and add.), 518 Market street, Philadelphia, $19,000. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Michell & Co., 516 Market street, Philadelphia. Brick, steel and iron, fire doors, tin roof, yellow pine floors, terrazzo floors, painting, glazing, plumbing, metal lath, plastering. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Moving Picture Theatre, Germantown and Lehigh avenues, $10,000. Architect, Willis A. Hall, 524 Walnut street, Philadelphia. Owner, Jacob Hess, on premises. Carpentry, mill work, brick work, painting, electric lighting, plumbing, plastering, metal wainscoting, plumbing, stone foundations. Contract awarded to Campbell Const. Co., 1309 Vine street, Philadelphia.

Store and Dwelling (alts.), Franklin and Girard avenue, Philadelphia, $7,000. Architect, private plans. Owner, Morris Kaufman, 1007 North Marshall street, Philadelphia. General alterations to store and dwelling. Contract awarded to Jacob Gorchov, 4116 Girard avenue, Philadelphia.

Shop (alts.), 1223-27 North Eleventh street, Philadelphia, $4,000. Architect, private plans. Owners, Frank B. Clayton Sons, 1223 North Eleventh street, Philadelphia. Strengthening floors. Contract awarded to George P. Clayton, 1819 North Twentieth street, Philadelphia.

Dwelling (alts.), 6505 North Eighth street, Oak Lane, Philadelphia, $10,000. Architects, Mellor, Meigs & Howe, 249 South Juniper street, Philadelphia. Owner, E. R. Whitney, Oak Lane, Philadelphia. Carpentry, mill work, marble work, composition floors, plumbing, plastering, hot air heat, tile work, electric lighting. Contract awarded to H. H. Burrell, 206 South Quinec street, Philadelphia.

Individual Garages (31), Pastorius street, East of Germantown avenue, $19,000. Archi-

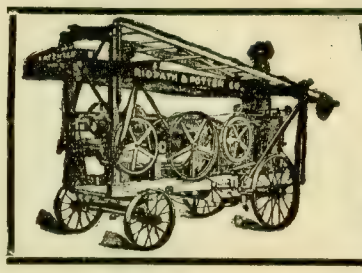


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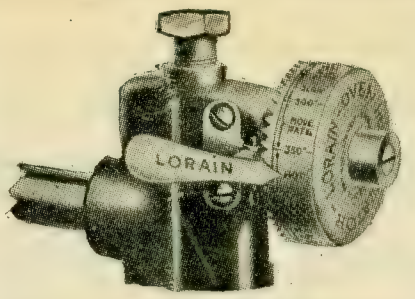
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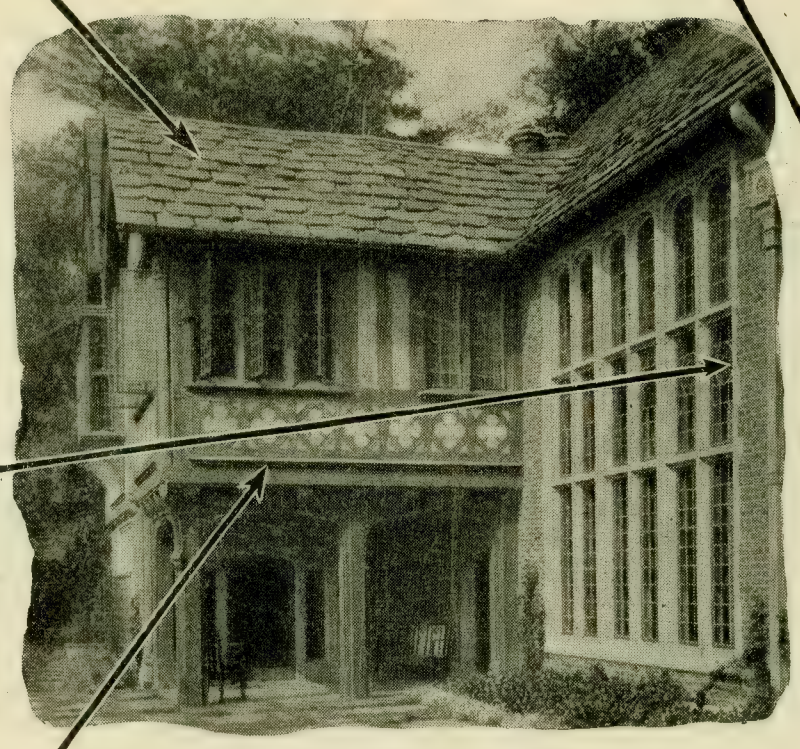
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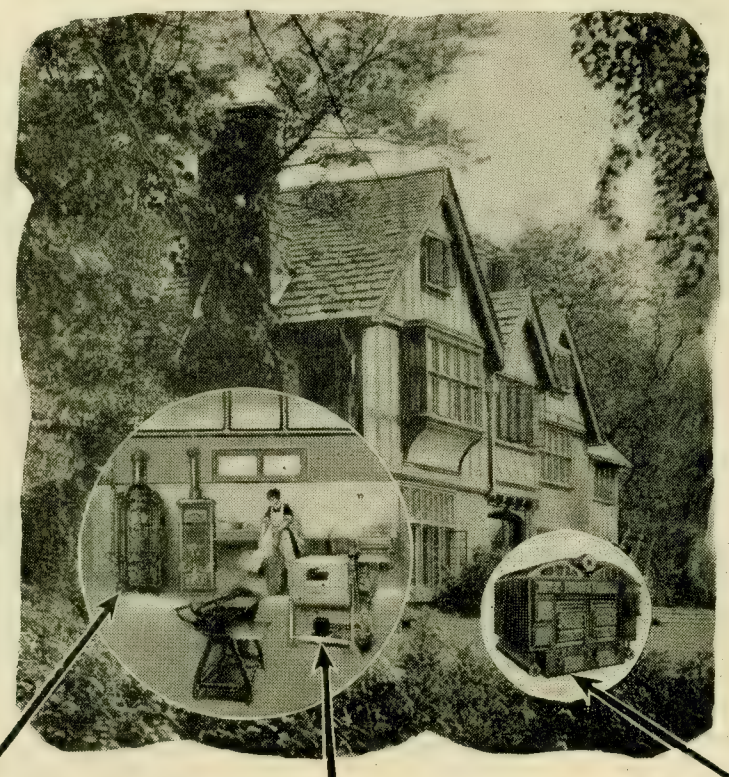


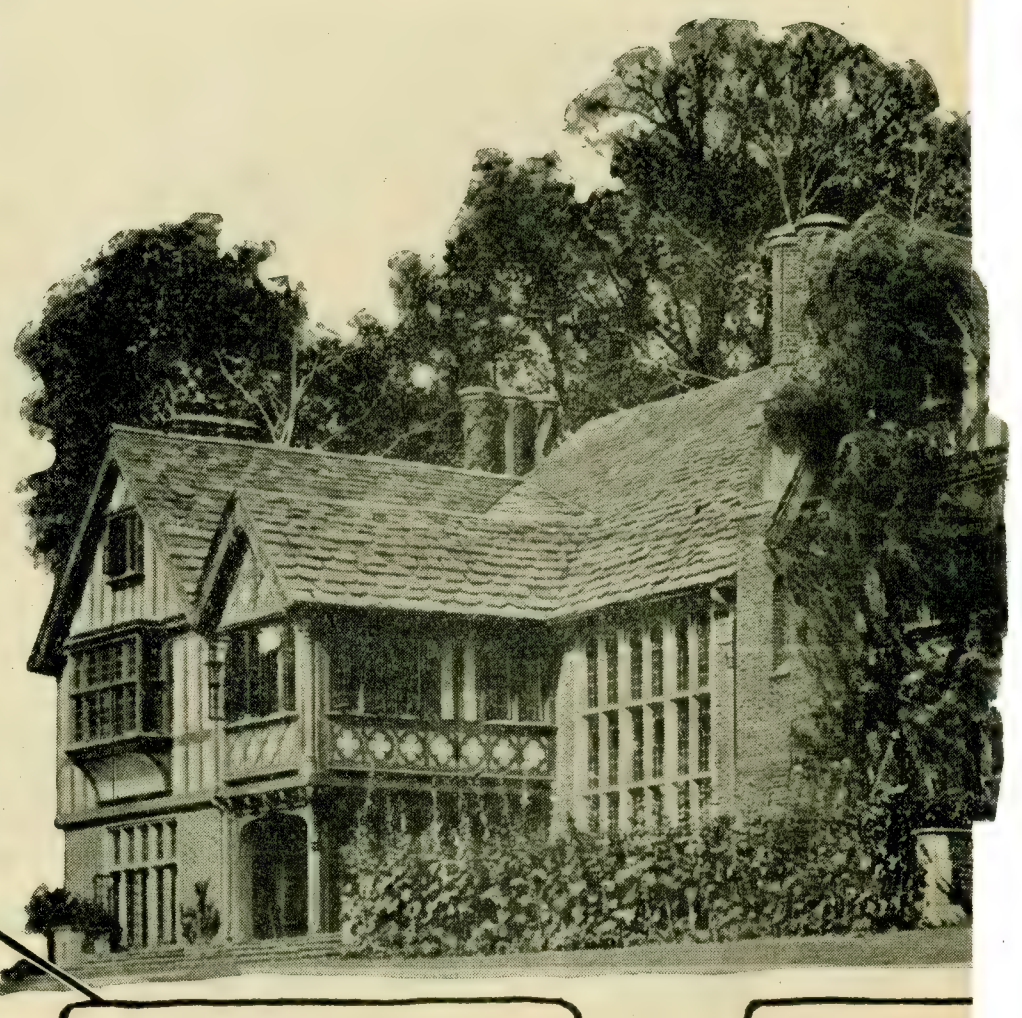
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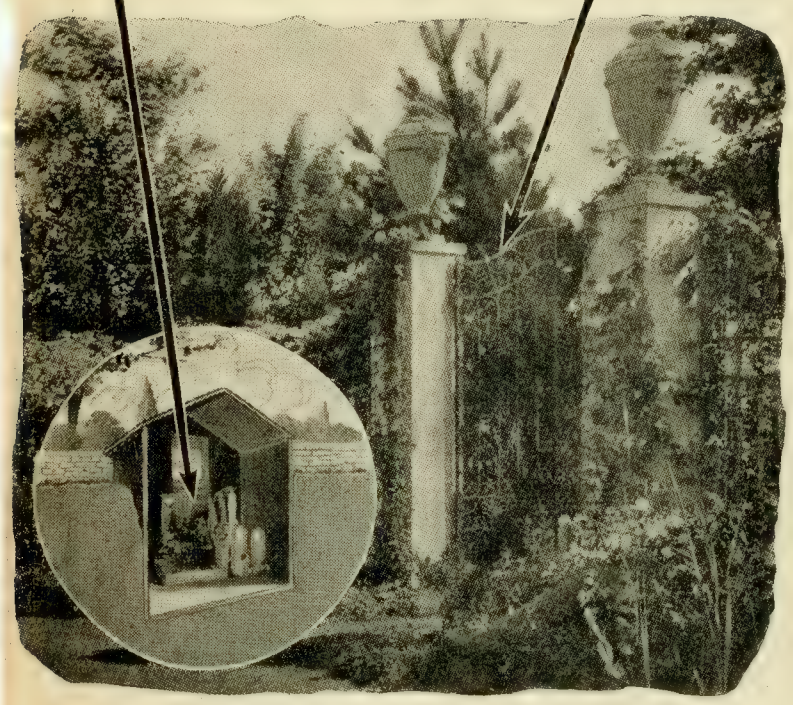
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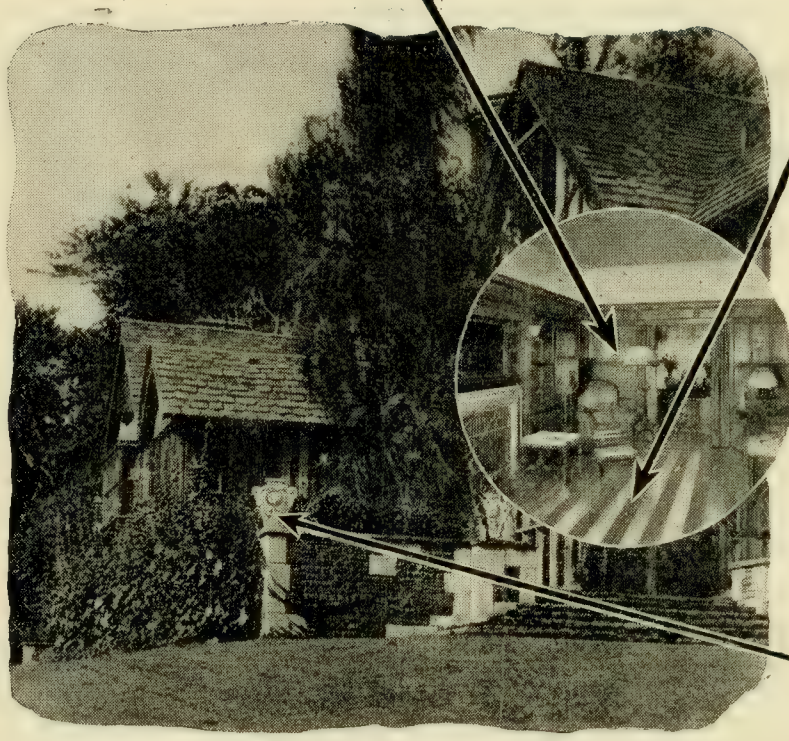
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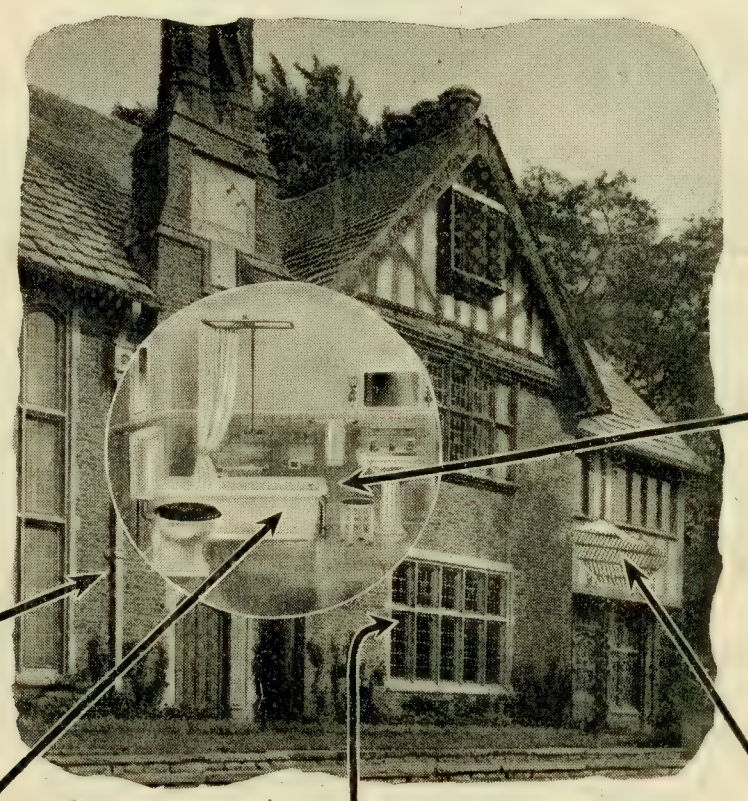


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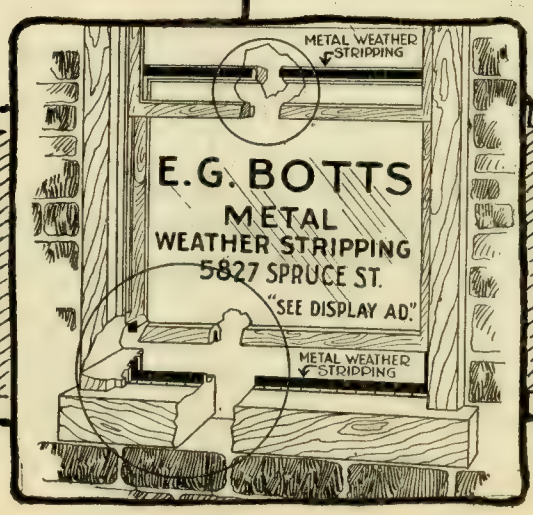






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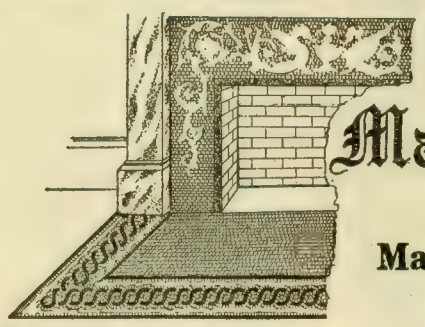


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tect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Thomas Keefe, Wayne and Roberts avenue, Philadelphia. Brick, 1 story, 8x18 feet, slag roof, steam heat, electric light, cement floors. Contract awarded to J. Y. Loux, Nineteenth and Hunting Park avenue, Philadelphia.

Toilet Room (add.), Northeast Corner Twentieth and Indiana avenue, $8,000. Architect, private plans. Owner, Freihofer Baking Co., on premises. Brick, 2nd story add. 11x33 feet, slag roof, plumbing, plastering, carpentry, mill work. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Office and Warehouse, Iseminger and Snyder avenue, Philadelphia. Architect, private plans. Owner, William F. Read & Sons Co., 209 Chestnut street, Philadelphia. Reinforced concrete, 4 stories, 50x70 feet, slag roof, cement floors, terra cotta, elevators, rolled steel sash, fire and kalamein doors, electric lighting, steam heating, concrete foundations. Contract awarded to William F. Newberry, Otis Building, Philadelphia.

Residences (alts.), 204-06-08-10 McAlpin street, Philadelphia, $13,000. Architect, private plans. Owner, The Lenape Club, 204 McAlpin street, Philadelphia. Carpentry, mill work, cement work, steel work, electric lighting, steam heating, plumbing. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Warehouse (alts.), Northeast Corner Fifth and Willow streets, Philadelphia, $3,000. Architect, private plans. Owners, Libby, McNeill & Libby, 135 North Delaware avenue, Philadelphia. General alterations. Contract awarded to Warren Bros., 1113 Cherry street, Philadelphia.

Residence (alt. and add.), Forty-fourth and Locust streets, Philadelphia. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Mrs. Samuel Heihl, on premises. Brick, 1 story add., 16x14 feet, slag roof, pine floors, general alts. for apartments, steam heat, electric light, tile work, new partitions, hollow metal skylight, fire escapes, ornamental iron work. Contract awarded to Warren E. Biscoe, 3954 Ludlow street, Philadelphia.

Dwelling (add.), 6220 Woodland avenue, Philadelphia, $4,700. Architect, private plans. Owner, Dr. George W. Koehler, on premises. Brick, 2 stories, 15x16 feet, and 1 story, 12½x8 feet, slag roof. Contract awarded to Julius Nelson, Darby, Pa.

Garage, 2013-15 North Croskey street, Philadelphia, $6,200. Architect, private plans. Owners, Wanamaker & Traganza, 2012 North Twenty-second street, Philadelphia. Brick, 1 story, 16x60 feet, slag roof, cement floor, electric light. Contract awarded to D. J. Cannito, 319 North Sixty-fourth street, Philadelphia.

Warehouse (add.), 1219 North Twelfth street, Philadelphia, $50,000. Architect, private plans. Owner, Keystone Telephone Co., 235 South Second street, Philadelphia. Brick, 2 stories, 64x90 feet, slag roof, steam heat, electric light, cement floors, hollow metal skylights, rolled steel sash, roof ventilators. Contract awarded to George Kessler Cont. Co., Drexel Building, Philadelphia.

Sales and Service Building, 2207-11 Chestnut street, Philadelphia. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Deisinger Motor Co., care of R. C. Greenberg, Morris Building. Brick, stone and steel, 2 stories, 120x34 feet, slag roof, pine and tile floors, metal lath, metal ceilings, iron work, rolled steel doors, stone foundations. Contract awarded to John

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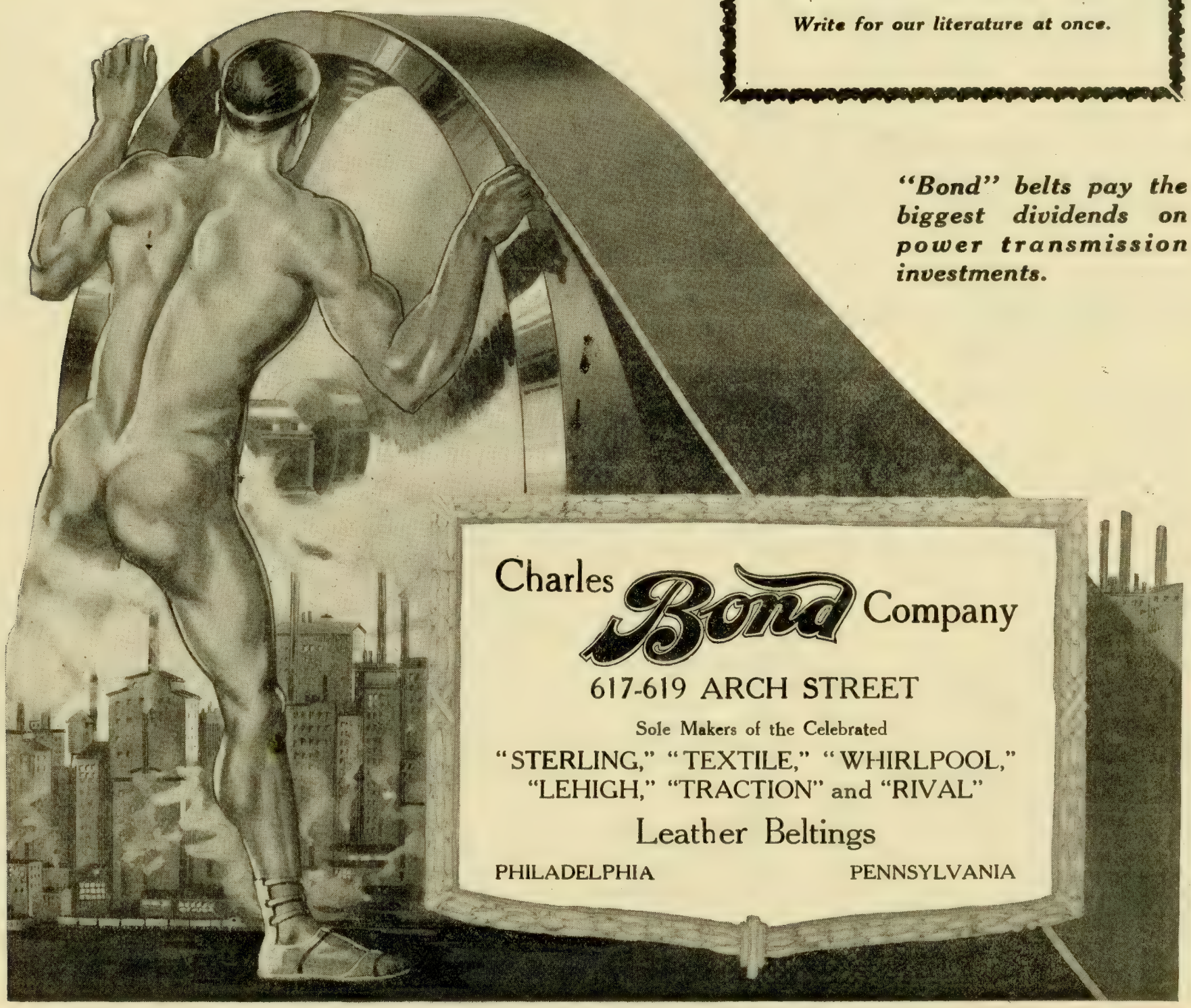
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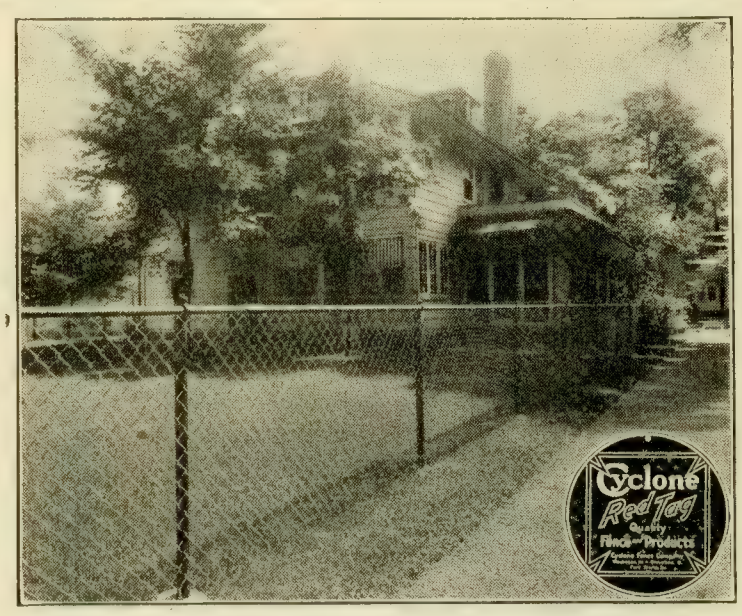
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Schnable Co., Denckla Building, Philadelphia.

Garage, 250 South Camac street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Louis Wenger, 1229 Walnut street, Philadelphia. Brick, steel, 2 stories, 86x50 feet, slag roof, cement floors, stone foundations, rolled steel sash, hollow metal skylights, metal lath, safety treads, roof ventilators, waterproofing, iron stairs, ornamental iron work. Contract awarded to Wm. R. Dougherty, 1620 Sansom street, Philadelphia.

Office Building (alts.), 1310 Arch street, Philadelphia. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, U. S. Loan Society, on premises. Steel work, steel sash, fire escapes, carpentry, mill work, slag roof, plastering, skylights, plumbing, painting, glazing. Contract awarded to Graham & Wells, 3649 Filbert street, Philadelphia.

Club House (add.), 1530 North Sixteenth street, Philadelphia. Architects, H. C. Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, Disston Estate, Front and Laurel streets, Philadelphia. Brick, 1 story kitchen addition, slag roof, pine floors. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Store (int. alts.), 939-41 Market street, Philadelphia, $5,000. Architect, private plans. Owner, F. I. Reizner, 1305 Market street, Philadelphia. Carpentry, mill work, bulk window, painting, glazing. Contract awarded to Pierce Henon, Inc., Bulletin Building, Philadelphia.

Dwelling (alts.), 1811 Delancey street, Philadelphia, $8,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, R. Stewart Smith, on premises. Plastering, carpentry, mill work, electric work, hot water heating repairs, painting, glazing. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Residence, Fifth street, south of Ruscomb street, Philadelphia, $6,000. Architect, private plans. Owner, James Butler, 2556 North Fifth street, Philadelphia. Brick, 2 stories, 20x37 feet, slag roof, hot water heating, electric lighting. Contract awarded to G. V. Simon, 3027 North Lawrence street, Philadelphia.

Building (alts. and add.), 6620-22 Woodland avenue, $7,000. Architect, H. M. Pedrick, Lansdowne, Pa. Owner, Pasqualla Jacobucci, on premises. Brick and steel, 1 story, 44x26 feet, slag roof, pine floors, stone foundations, heating extensions, electric lighting, tile work. Contract awarded to Manfroda Panfilo, 907 Tasker street, Philadelphia.

PENNSYLVANIA
Construction News

Ice Cream Factory, 932 Penn street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, George E. Thoma, care of architect. Brick, 1 story and basement, 20x140 feet, concrete foundations, composition roof, concrete and wood floors, electric lighting. Plans in progress.

Church (alt. and add.), Lancastetr, Pa. Architects, Ritcher-Lee Co., Sixth and Court streets, Reading, Pa. Owners, Moravian Church, Rev. R. H. Brenneck, Jr., 36 West Orange street, Lancaster, Pa. Stone, 1 story, stone foundations, interior alterations. Too early for details.

Synagogue, Thirteenth and Perkiomen streets, Reading, Pa., $75,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Cheb Sholm Hebrew Congregation, care of Julius Frank, 1147 Franklin street, Reading, Pa. Stone, 1 story and basement, 55x100 feet. Plans in progress.

Building (alts. and add.), Coatesville, Pa. Architects, Shattuck & Layer, 19 South La Salle street, Chicago, Ill. Owners, Y. M. C. A., Coatesville, Pa. Brick, steel and terra cotta, 4 stories, 146x35 feet, composition roof, tile, maple and pine floors, metal lath, roof ventilators, waterproofing, ornamental iron work, fire escapes, hollow metal doors and skylights and sash, marble work, electric lighting, steam heating, stone foundations. Architects taking bids due July 2nd. Warren Moore Co., Colonial Trust Building; F. L. Hoover & Son, 1023 Cherry street; Irwin & Leighton, 126 North Twelfth street, and F. W. Van Loon, Perry Building, are figuring.

School Building, Lower Chichester Township, Delaware County, Pa. Architects, Ritter & Shay, North American Building, Phila-

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delphia. Owners, Lower Chichester Township Board of Education, Lower Chichester, Delaware County, Pa. Brick, 2 stories, 144x61 feet, slag roof, pine floors, concrete foundations (steam heating, electric lighting and plumbing reserved). Architects ready for bids due July 15th.

Memorial Building (Tribute House), Merion, Pa. Architect, Walter T. Karcher, 34 South Seventeenth street, Philadelphia. Owners, Merion Civic Association, care of Joseph McCall, Chairman of Building Committee, 1000 Chestnut street, Philadelphia. Brick and stone, 1½ stories, 130x140 feet, slate and slag roof, cork and maple floors, stone foundations, steam heat, electric light, tile and marble work, metal lath, iron work. Architects taking bids (revised). Doyle & Co., 1519 Sansom sreet, and H. E. Grau Co., 1706 Sansom street, are figuring.

Administration Building, Mercersburg, Pa. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owner, Mercersburg Academy, Mercersburg, Pa. Stone, brick, Indiana limestone and concrete, 1 story and basement, 91x80 feet, slate and slag roof, cement and oak floors, hollow tile, metal lath, safety treads, waterproofing, iron work, kalamein doors, rolled steel sash, marble and terrazzo work, steam heating, electric lighting, stone foundations. Architects taking bids due July 8th at noon. Jacob Myers & Sons, Witherspoon Building; R. C. Ballinger & Co., 218 North Thirteenth street; J. Sims Wilson Co., 1125 Brown street, and A. R. Raff Cont. Co., 1635 Thompson street, are figuring.

Club Buildings (alts. and add.), Bailey road, Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Country Club of Lansdowne, on premises. Interior alterations. Frame and stucco, 1 story add., 20x29 feet, slate roof. Architects taking bids due July 6th at 4 P. M. Pomeroy Const. Co., 1609 Ranstead street; McNeill & Valentine, 841 North Broad street, and J. Howard Roberts. Lansdowne, Pa., are figuring.

Hotel (alts. and add.), South avenue, Media, Pa. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owners, Charter House Hotel, Chester, Pa. General alterations and additions. Architect ready for bids in a few days.

Coal Trestle, Ardmore, Pa. Architect, private plans. Owners, Sun Oil Co., Chester, Pa. Concrete. Owners taking bids. H. John Homan, 34 South Seventeenth street, and Barclay White & Co., 1713 Sansom street, are figuring.

Bank, Media, Pa. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owner, Media Title & Trust Co., care of V. G. Robbing, President, Media, Pa. Brick and stone, steel and concrete, 2 stories, 45x85 feet, slag roof, steam heating, electric lighting, marble work, hollow metal skylights, vaults, bank fixtures, ornamental iron work. Architect will be ready for bids in a few days.

Residences (200), Lester, Pa. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owner, Westinghouse Electric Co., Lester, Pa. Brick, 2 stories, 18x28 feet, slag and slate roof, pine floors, concrete foundations, hot air heating, electric lighting, gas ranges. Architect is ready for bids (general) on groups of (40) houses each.

Stable (alts.), Glenside, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, W. W. Harrison, Glenside, Pa. Lumber, carpentry, mill work, plastering, electric work, repairs to heating, plumbing, painting, glazing, hardware. Architect has received bids.

Library Building, Collegeville, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, Ursinus College, Collegeville, Pa. Stone, 1 story. Preliminary plans in progress. Too early for details.

Herbst School (alts.), Allentown, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Board of Education, Allentown, Pa. General alterations, slate roof, composition, pine and terrazzo floors, metal lath, roof ventilators, hollow metal doors, iron work, painting, glazing, hardware, sheet metal work, plastering. Owners have received bids.

Sheridan School (alts.), Allentown, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Board of Education, Allentown ,Pa. General alterations, composition, pine and terrazzo floors, metal lath, roof ventilators, hollow metal doors, iron work, terrazzo work, hollow metal doors, painting, hardware, slate work, plastering. Owners have received bids.

Residence, Wyomissing, Reading, Pa. Architect, H. Maurer, 226 Fifth street, Reading, Pa. Owner, S. H. Breneise, 801 Penn street, Reading, Pa. Brick, 2½ stories, 37x40 feet, stone foundations, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Architect taking bids due July 10th. Adam Spatz, Charles Schlegel and D. Hunter, all of Reading, Pa., are figuring.

Theatre, 434 Penn street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Capital Theatre, W. C. Kantner, care of architect. Reinforced concrete and steel, 1 story and basement, 60x270 feet, stone foundations, composition roof, concrete floors, steam heat, electric light, tile and marble work, metal lath, rolled steel skylights, fire doors, roof ventilators. Plans in progress.

Hospital (add.), Nurses' Home and Service Building, Lancaster, Pa. Architect, H. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Lancaster General Hospital, care of M. Brightener, on premises. Brick, 2, 2 and 4 stories, 55x40 feet, 40x80 feet, and

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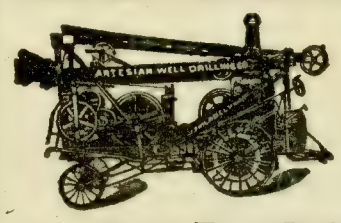
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50x84 feet, stone foundations, slate and slag roof, hardwood and tile floors, electric light, tile, marble and terrazzo work, elevators, rolled steel skylights, fire doors, roof ventilators, metal weatherstrips. Owners will be ready for bids July 5th.

School and Auditorium, Manheim Township, Lancaster County, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Manheim Township School Board, care of Elmer Espenshade, 1024 N. Duke street, Lancaster, Pa. Brick, 1 story, 150x150 feet, concrete foundations, slag roof, hardwood floors, electric lighting, tile and marble work, hollow metal skylights, roof ventilators. Board will be ready for bids in two weeks.

Bank, Palmyra, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Palmyra National Bank, care of Eugene Boman, on premises. Brick and stone, 3 stories, 30x68 feet, stone foundations, metal roof, marble floors, hot water heating, electric lighting, tile, marble and terrazzo work, hollow metal sash and skylights, roof ventilators, bank fixtures. Owners taking bids. Wm. Flick, Lancaster, Pa., is figuring.

Factory and Office, 131 North Duke street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Union Saving System, care of Mr. Taylor, on premises. Brick and concrete, 1 story and basement, 120x27 feet, slag roof, concrete foundation, concrete floors, electric lighting, hollow metal sash. Architect has received bids.

Residence, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Mr. Overly, Monterey, Lancaster County, Pa. Frame, 2½ stories, 40x35 feet, slate roof, hardwood floors, hot water heating, electric lighting. Owner will build.

Residence, Landesville, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, J. Miller Eshelam, on premises. Brick, 2½ stories, 40x30 feet, concrete foundations, slate roof, hardwood floors, vapor heating, electric lighting, tile work. Owner will build.

Boiler House, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Sisters of St. Joseph, St. Joseph's Hospital, Lancaster, Pa. Brick and steel, 1 story, 50x45 feet, stone foundations, slate roof, concrete floors, electric lighting. Owner will build.

Bank, Shermanstown, Pa. Architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owners, care of architects. Brick, limestone, 1 story, 30x50 feet, composition roof, maple floors, electric light, tile work, bank fixtures. Plans in progress.

Home, between Perdix and Coal Station, Harrisburg, Pa. Architect, private plans. Owners, Good Will Fire Co., Harrisburg, Pa. Brick, 2 stories, 40x60 feet, slag roof, electric light. Plans in progress.

Residence (alts. and add.), Second and Hamilton streets, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Mr. Kusshel, on premises. Frame, 1 story, 20x36 feet, tin roof, steam heat, electric light, new plumbing, electric wiring. Owner ready for sub-bids.

Residences (60), York, Pa. Architects, Gimmel & Billmeyer, Rosemiller Building, York, Pa. Owners, York Home Building Exchange, care of Mr. Grumbacher, President, York, Pa. Brick, 2 stories, 16x30 feet, slag roof, pine floors, pipeless heat, electric light. Owners will build.

Residence (alts.), Wynnewood Road, Wynnewood, Pa. Architects, Mills & Van Kirk, HarrisonB uilding, Philadelphia. Owner, Langdon C. Lea, Stephen Birard Building, Philadelphia. Interior alterations, marble work, electric lighting, painting, papering, wood carving. Architects will be ready for sub-bids in a few days.

Residence, Lansdowne, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Stone and brick, 3 stories, 28x40 feet, wing 18x18 feet, slate roof, hardwood floors, stone foundations, hot water heat, combination lighting, tile and marble work. Plans in progress.

School, Willow Grove, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Upper Moreland School District, Willow Grove, Pa. Brick and hollow tile, 1 story, 147x54 feet, wing 78x40 feet, slate roof, pine and composition floors, stone foundations, steam heating, electric lighting, plumbing, ventilators. Architect taking revised bids, due July 12th at 8 P. M. Thos. Reilly, 1616 Thompson street, and Henry Specht, Jr., Willow Grove, Pa., are figuring.

Cow Barn, Spring City, Pa. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, State Institution for Feeble Minded of Eastern Pennsylvania, Spring City, Pa. Concrete and hollow tile, 2 stories, 108x36 feet, and two wings, 33x36 feet, asbestos shingle roof, steam heating, electric lighting. Architect will be ready for bids in about two weeks.

Residence, Mt. Penn, Reading, Pa. Architects, Ritcher Lee Co., Reading, Pa. Owner, H. K. Janssen, care of Textile Machine Works, Reading, Pa. Stone and stucco, 1½ stories, 56x24 feet, shingle roof, hot air heat, electric lighting, tile work. Owner will build.

Pennsylvania Contracts Awarded

Exchange Building (alts.), Ardmore, Pa. Architect, private plans. Owners, Bell Telephone Co. of Pennsylvania, Ardmore, Pa. Interior alterations, plumbing, electric work, kitchen equipment, gas range piping. Contract awarded to Carr & Courtenay, 43 South Seventeenth street, Philadelphia.

Store Building (alts. and add.), 26 West Lancaster avenue, Ardmore, Pa. Architect, H. L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Edw. J. Lyons, on premises. Brick, 2 stories, 25x65 feet, slag roof, pine floors, electric light, plumbing (heating reserved). Contract awarded to P. H. Turnbull, 5926 Locust street, Philadelphia.

Residence, Montgomery avenue and Rose Lane, Haverford, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Charles C. Norris, Jr., West End Trust Building, Philadelphia. Hollow tile, stucco and steel, 2½ stories, 68x34 feet, wing 17x16 feet, slate and canvas roof, oak and pine floors, stone foundations, tile work, hollow tile, metal lath, tile work, iron work. Contract awarded to Leroy K. Smith, Forty-first and Chester avenue, Philadelphia.

Residence and Garage (alts. and add.), Ardmore, Pa., $14,000. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owner, J. H. Crosman, Ardmore, Pa. Frame, 2 stories, 12x18 feet and 30x26 feet, shingle roof, pine and cement floors, tile work, stone foundations, plumbing. Contract awarded to Gray Bros., Rosemont, Pa.

Temple, Lebanon, Pa. Architects, Ritcher-Lee Co., Sixth and Court streets, Reading, Pa. Owners, Knights of Malta, Hall Association,

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Morris Erdman, Secretary, Lebanon, Pa. Brick and stone, 3 stories and basement, 44x100 feet, stone foundations, composition roof, maple floors, steam heat, electric light, shower baths, bowling alley, ball room. Contract awarded to J. H. Greiner, Lebanon, Pa.

Church, Wyomissing, Pa. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Lutheran Church of Atonement, Rev. J. L. Deaton, Wyomissing, Pa. Stone, 1 story and basement, 40x90 feet, stone foundations, slate roof, maple floors, vapor heating, electric lighting, tile work. Contract awarded to Beard Const. Co., Reading, Pa.

Administration Building, Thirteenth and Exeter streets, Reading, Pa., $100,000. Architects, Muhlenberg Bros., 513 Penn street, Reading, Pa. Owners, Schuylkill Seminary, care of Dr. W. F. Teal, on premises. Brick and stone, 3 stories and basement, 49x121 feet, stone foundations, slate roof, concrete and hardwood floors, steam heating, electric lighting, tile work. Contract awarded to Samuel Sherman, Reading, Pa.

Building (add. and alt.) to Bank, Lebanon, Pa. Architects, Ritcher-Lee Co., Sixth and Court streets, Reading, Pa. Owners, Farmers' Trust Co., care of C. Gerhart, President, Lebanon. Brick, 5 stories, 52x205 feet, general interior alterations, marble and tile floors, court tile, granite front, grills, bronze work, vaults, plumbing, electric wiring. Contract awarded to J. H. Greiner, Lebanon, Pa.

Apartment (add. and alt.), 822-24 Penn street, Reading, Pa. Architect, A. F. Smith, Sixth and Court streets, Reading, Pa. Owner, A. H. Kissinger, 826 Penn street, Reading, Pa. Brick and terra cotta, 4 stories, 40x71½ feet, slag roof, hardwood floors, electric lighting, tile work, rolled steel skylights. Contract awarded to Beard Const. Co., Reading, Pa.

Bungalow and Garage, Melrose Park, Pa. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Alfred B. Conaway, 5316 North Camac street, Philadelphia. Hollow tile and stucco, 1 story, 35½x50 feet, shingle roof, hardwood and pine floors, stone foundations, hot air heat, electric lighting, concrete foundations, tile work. Contract awarded to Nicholas Altarelli, 537 Carpenter street, Philadelphia.

Residence (alts. and add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Elmer J. Eshleman, Lititz Pike, Lancaster, Pa. Brick, 2½ stories, 20x40 feet, slag roof, hardwood floors, electric lighting, tile work, general interior alterations. Contract awarded to J. Strumph, Lancaster, Pa.

Residences (2), College avenue, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, F. S. Pyfer, Lancaster, Pa. Brick, 2½ stories, 16x36 feet, stone foundations, slag roof, yellow pine floors, bi-loop heating, electric lighting, tile work. Contract awarded to Samuel Bally, Lancaster, Pa.

Market (alts.), to Garage, East King street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, W. D. Ranck, 126 East King street, Lancaster, Pa. Brick, steam heat, electric light, tile work, cement floors, plate glass. Contract awarded to Samuel Bally, Lancaster, Pa.

South Office Building, Capitol Grounds, Harrisburg, Pa. Architect, Arnold H. Brunner, 101 Park avenue, New York. Owners, State of Pennsylvania, care of Mr. Rambo, Capitol, Harrisburg, Pa. Steel and granite, 6 stories, 287x158 feet, felt roof, electric lighting, tile and marble work, excavations, foundations and superstructure. Contract awarded to S. W. Shoemaker & Son, 1545 North Sixth street, Harrisburg, Pa.

NEW JERSEY
Construction News

Power House (add.), Building No. 12-A, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Victor Talking Machine Co., Camden, N. J. Concrete piling. Contract awarded to Raymond Concrete Pile Co., Franklin Trust Building, Philadelphia. Architects will sublet all contracts for addition to building.

Masonic Temple (int. alts.), Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Masonic Temple, Camden, N. J. Painting and miscellaneous interior alterations. Architects taking sub-bids due July 1st.

School (add.), Audubon, N. J., No. 3. Architect, David C. Lange, Audubon, N. J. Owner, Board of Education, Audubon, N. J. Brick, steel and stone, 1 story, 62x24 feet, wing 62x24 feet, asbestos asphalt roof, cement and maple floors, metal lath, safety treads, dampproofing, iron work, stone foundations, steam heat, electric lighting, tile work. Owners taking bids due July 6th. Standard Const. Co., 1713 Sansom street, Philadelphia, and John M. Yardley, 1716 Sansom street, Philadelphia, are figuring.

Public School (add.), No. 2, Audubon, N. J. Architect, John H. Mowere, Phoenixville, Pa. Owner, Board of Education, Audubon, N. J. Brick and steel, 1 story, 2 wings 108x55 feet, asbestos built-up roof, asphalt and pine floors, roof ventilators, stone foundations, steam heat, electric lighting. Owners taking bids due July 6th. Standard Const. Co., 1713 Sansom street, and J. M. Yardley, 1716 Sansom street, are figuring.

NEW JERSEY
Contracts Awarded

Quarters, Shop and Power Plant Buildings, Spec. 4082, Lakehurst, N. J. Architect, private plans. Owner, United States Government, Bureau of Yards and Docks, Navy Department, Washington, D. C. Brick, steel and stucco, 3 stories, 41x24 feet, 2 stories, 72x31 feet, wing 35x18 feet, 1 story, 123x102 feet, 1 story, 111x50 feet, built-up roof, concrete and pine floors, hollow tile, metal lath, roof ventilators, dampproofing, iron work and stairs, steel doors, copper skylights, rolled steel sash, tile work, electric lighting, steam heating, stone foundations. Contract awarded to Hughes-Foulkrod Co., Commonwealth Trust Building, Philadelphia, $480,000.

Bank (alts. and add.), Moorestown, N. J. Architect, Edwin A. Yeo, Stephen Girard Building, Philadelphia. Owners, Burlington County Trust Co., Moorestown, N. J. Brick, stone and steel, 1 story, 30x40 feet, slag roof, maple floors, metal lath, iron work, electric lighting, stone foundations. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Residence (alts. and add.) and Garage, 180 West State street, Trenton, N. J. Architects, Dreher, Churchman, Paul & Ford, 1424 Walnut street, Philadelphia. Owner, Mrs. Thomas S. Chambers, on premises. Brick, 1½ stories, 18x22 feet, slate roof, cement and pine floors, stone foundations, hot water heating, electric lighting, carpentry, mill work, painting, glazing, hardware. Contract awarded to Edw. S. Sutton, Trenton, N. J.

Warehouse, No. 53, State street, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Concrete and wood, 1 story, 400x400 feet, slag roof, cement floors, stone foundations, rolled steel sash and skylights, fire doors, iron work (heating, electric lighting and plumbing reserved). Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Miscellaneous Construction News

Warehouse, Bridgeport, Conn. Architect, private plans. Owner, name withheld. Reinforced concrete, 6 stories, 120x200 feet, slag roof, concrete floors, elevators, safety treads, roof ventilators, waterproofing, iron work, fire doors, skylights, rolled steel sash, stone foundations. George Kessler Cont. Co., Drexel Building, are figuring and are taking subbids.

Store Building (alts.), Third and Washington streets, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Levenson & Klein, on premises. General alterations to entire biulding. Architect taking bids due July 6th. Frank Herbert, R. B. Mason, Rosen Bros., Lawrence Schoenlein and Henry M. Maas, Baltimore, Md., are figuring.

Aeroplane Hangars and Officers' Quarters, Langley Field, Hampton, Va., $914,000, 400 days. Architect, private plans. Owners, U. S. Government, War Department, Washington, D. C. Steel, brick, terra cotta and frame, 2½ stories and 1 story, slate roof, tin roof, steam and hot air heat, concrete and pine floors, fire doors, etc. Lowest bidders, Stang & Mitchell, Real Estate Trust Building.

High School, Winston Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Board of Education, Winston Salem, N. C. Brick, stone, steel and concrete. Preliminary plans in progress.

Theatre, Seaford, Del. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, William Ford Breeding, Seaford, Del. Brick, steel and terra cotta, 1 story and mezzanine, 44x131 feet, composition roof, concrete, pine and terrazzo work, metal lath, roof ventilators, waterproofing, stone foundations, steam heat, electric light, hollow metal sash and skylights, fire escapes, iron work. Architect taking revised bids due July 1st. J. R. Wiggins & Co., Otis Building, and J. S. Rogers Co., Drexel Building, Phila-

delphia, are figuring.

School, Silver Run, Md. Architects, Markley & Stair, Spooner Building, Harrisburg, Pa. Owners, Board of Education of Carroll County, Md., care of architects. Tile, 1 story, 100x120 feet, stone foundations, slate and slag roof, pine floors, vapor heat, electric light, rolled steel skylights, roof ventilators. Plans in progress.

Constructing Hangar, Brook Field, San Antonio, Texas. Architect, C. W. Parks, Bureau of Yards and Docks, Washington, D. C. Owners, War Department, U. S. Government, Bureau of Yards and Docks, Washington, D. C. Steel and concrete, 1 story, 270x176 feet, gypsum asbestos roof, concrete floors, stone foundations, electric light, metal lath, metal weatherstrips, kalamein and steel doors, iron stairs and work. Contract awarded to Stang & Mitchell, 730 Real Estate Trust Building.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 17, 1920. Sealed Proposals will be opened in this office at 3 P. M., July 15, 1920, for alterations, etc., to the United States post office and custom house at Oswego, N. Y. Drawings and specifications may be obtained from the Custodian at the building or at this office, at the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 24, 1920. Sealed Proposals will be received at this office until 3 P. M., July 22, 1920, and then opened, for extension of mailing vestibule and driveway at the U. S. Post Office, Canton, Ohio, in accordance with the specification and drawing No. 102, copies of which may be had at this office or at the office of the Custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 25, 1920.—Sealed proposals will be opened in this office at 3 P. M., August 13, 1920, for the construction complete of the United States Post Office at Front Royal, Va. Drawings and specifications may be obtained on or after July 16, 1920, from the Custodian of site at Front Royal, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 28, 1920.—Sealed proposals will be received at this office until 3 P. M., July 12, 1920, and then opened, for constructing complete, a new wharf, bulkhead, breakwater, and dredged channel for the United States Quarantine Station at Cape Charles (Craney Island), Va., in accordance with the specification and drawings, copies of which may be obtained from the custodian of the station or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 596.)

never be placed close to a stove to dry as it is likely to take fire.

The combination of a defective chimney and a wooden shingle roof is most dangerous. Usually, when an improperly constructed chimney develops cracks above a wooden shingle roof it is merely a matter of time before sparks escape through the openings and, dropping upon the dry, tinder-like shingles, start to burn up the house.

In addition, the wooden shingle is subject to ignition from the lighted brands of forest and prairie fires and from locomotive or other sparks that may be flying around. The metal roof, besides offering protection in this regard, also acts as a conductor of lightning if the material is properly grounded.

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"We stand today at the beginning of a new period of economic history. The great Trade Unions—no longer mainly defensive and restive—are awakening to a new conception of their functions; a new vision of creative service. And the Building Industry of England will be the first great staple industry to put this new conception into practical shape in the form of the Guild of Builders.

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"The Trade Union Ticket is the certificate of Guild membership. Every member of every branch of the National Federation of Building Trade Operatives and of every other approved group of Building Trade Workers in the District is a Guildsman and has a vote in the election of the Guild Committee. This, in turn, will ultimately form a part of the National Guild of Builders—a great industrial combine for the public service—with full democratic control by all the workers by hand or brain engaged in that service.

"The Guild Committee"

"The Guild Committee, therefore, will consist of representatives elected by the following Trade Unions or approved groups within this District:

(*a*) The Trade Unions affiliated to the District Section of the National Federation of Building Trade Operatives.

(*b*) Any other Trade Unions or groups of Building Trade Workers within the District, whether Administrative, Technical, Clerical or Operative, that may be approved by the Committee.

Each Trade Union or approved group will elect One Member.

"When there are several Local Committees operating in the District, each of these Local Committees will be represented on the Guild Committee. In this way we shall secure an elected Executive Committee chosen by Districts and by crafts.

"The Legal Entity"

"Each of these members on election will take up a One Shilling Share in a Society registered under the Industrial and Provident Societies Acts, 1893-1913, and entitled "The Guild of Builders, (London) Ltd.' He will also deposit with his electors a signed, open transfer, thus giving them power to replace him at any time. In this way the Guild Committee becomes a legal entity with power to enter into contracts, and yet the whole of its members are under control of the industrial democracy they represent. If any Union or Group fails to elect its member by the appointed day, such member may be co-opted by the Society in General Meeting.

"Ojects of the Guild"

"The first and immediate duty of the Guild is to mobilize the necessary labor to build the houses so urgently needed by the nation, and to build them in the best possible manner and at the lowest possible cost.

"The objects, as stated in the Draft Rules, are:

1. To carry on the industry of Builders, Decorators and General Contractors.
2. To undertake all branches of supply, whether as Merchant, Manufacturer or Transporter.
3. To carry on any other work which the Society may think necessary or desirable in connection with the above objects.

"From this it will be seen that the Guild is designed ultimately to undertake every branch of the Building Industry, and to provide its customers with the services of skilled architects and engineers, to purchase and manufacture the materials, to transport them to the site, erect the buildings—and even, perhaps, to furnish them.

"Democratic Control In Practice"

"The Guild Committee will be responsible for the appointment and removal of managers, and for the fixing of their salaries. It is important to notice here the difference between the Guild practice and that of the self-governing workshops which have so often been set up without conspicuous success. The manager of a self-governing workshop is responsible to his own staff. The Guild Manager, however, is responsible—through the Guild Committee—not only to his own staff, but to the whole of the organized Building Trade Operatives in the District. This gives him security without weakening the full democratic control by the workers.

"Remuneration of Guild Committee"

"It is suggested that members should be entitled to subsistence allowances, and compensation for lost time and all expenses.

"Powers of Appointed Managers"

"Whilst it is generally agreed that large powers should be given, it is recognized that this is a matter for the Guild Committee itself to decide, and does not therefore come within the scope of this prospectus.

"The New Status of the Guild Worker"

"The labor of Guildsmen will no longer be regarded as a commodity like bricks or timber, to be purchased, or not, as required. *As soon as it can be arranged,* the Guildsman will be 'on the strength' for life. He will draw Guild pay in sickness or accident, in bad weather or in good, at work of in reserve. The minimum Guild pay will always be the full standard rate as fixed for the industry as a whole, but there is no doubt that the Guild will be able to increase the purchasing power of its members' pay by the scientific organization of production.

"Building Contracts"

"The Guild will undertake work for every type of building owner, whether public or private. It will build for agreed prices or for prime cost plus a fee. But in every contract the price for the fee must include the percentage necessary to secure, during its run, to all engaged thereon, the continuous Guild pay described in the last paragraph. Beyond this there will be a small percentage for the purchase of plant, for overhead charges, and, if necessary, for the hire of capital, at fixed rates, without powers of control.

"Organized Public Service"

"This is the watchword of the Guild. It means that its surplus earnings will under no circumstances be distributed as dividends. This is a fundamental rule. Surplus earnings will always be used for the improvement of the service, by providing for increased equipment, for reserve, for technical training and research, and for the elimination of hired capital.

"Ownership of Plant and Material"

"It is intended that all plant and material shall be transferred to the properly constituted authority to be set up in connection with the National Guild of Builders.

"Craftsmanship"

"'We shall do work worthy of the Middle Ages,' said one of the Manchester Operatives to whom the Guild owes so much, and he was right. The Guild stands for the revival of the Building Art. It will offer scope to the craftsman such as he has never dared hope for. It opens out possibilities of service to the skilled administrators and technicians that the old system could not possibly provide. And it gives them all a new status as free men, working in a democratic comradeship of service.

"Financial Guarantees"

"The Guild will give no financial guarantee for the performance of its contracts. It pledges itself to carry out the work that it undertakes, and it supports this with a roll of volunteers pledged to do the work. This is the most effective guarantee that can be devised.

"The Call for Volunteers"

"A form of enrollment will be found at the end of this prospectus, and all Building Trade Workers of every grade are invited to sign it, and at the same time to subscribe to the *Journal* of the Guild, and to the loan for preliminary expenses.

"The Journal"

"*The Guild Journal* is an essential feature of the scheme. It will keep all the

Guildsmen informed as to the progress of the movement. It will follow closely the proceedings of the Building Trades' Parliament before which the Guild proposals will be frequently debated. It will illustrate the buildings erected by the Guild, describe new methods and new processes, circulate statistics, publish correspondence, and, above all, it will be recognized and read by the public as the official organ of the New Industrial Democracy.

"WILL THE GUILD WORK?"

"'No one who has ever risen to any great height in this world has refused to move until he knows where he is going. Here is the great spiritual weakness of our time: we have lost sight of the venturesomeness of Faith. But somebody has got to break away—somebody has got to break the spell of things as they now are, if we are not to go on in a cycle of increasing tragedies. How can we go without knowing whither? How can we lose without seeing any acquisition?'"

"'If Columbus had reflected thus, he would never have weighed anchor. It is madness to sail the sea without knowing the way; to sail the sea no one has ever traversed before; to make for a country the existence of which is a question.'

"'But with this madness, he discovered a new World.'"

EDITOR'S NOTES: The Guild movement has undoubtedly been greatly stimulated by the collapse of the Government's housing program in England. "Has any Government ever collapsed so ingloriously before an urgent task?" say the *London Nation.* "Mr. Lloyd George and Mr. Asquith both see no alternative to bureaucracy except 'private enterprise,' and their specific has been tried for the housing difficulty with the results that are familiar to us all. We are now to see some experiments based on a different analysis of human nature. They will be watched by all who realize to what a plight mankind has been brought by the play of those motives which seemed to the old economists, and still seem to our rulers, the only available springs of human energy.

"The complete collapse of the Central Government before a plain and urgent task has been followed by the awakening of local consciousness and the readiness on the part of local authorities to try new departures. An industry in which chaos and complexity were conspicuous has taken steps to organize itself as a public service, and as it happens this industry is at the moment the most prominent in the public eye. To those who are looking with interest and sympathy to the new ideas of democratic thinkers about the functional organization of society, both these developments have a special significance."

The numerous building Guild developments that have sprung up all over England are all based, as in the London Guild, upon their ultimate amalgamation in the National Building Guild. The Guilds are of course still handicapped by high prices for land and materials, and lack of credit, but it is not at all unlikely, as we are advised, that an arrangement with the Co-operative Societies may go far toward removing some of these difficulties.

PEP PARAGRAPHS

Ability is largely application.

I guess so is the reply of a failure.

Many heated discussions come from hot heads.

Pep is the seasoning which gives relish to the things we do.

A grain of forethought is worth more than a ton of afterthought.

Ideas are like rivets; they should be driven home and clinched while hot.

A successful man goes to the highest authority; an unsuccessful one to the lowest.

The saddest gink we ever saw was one who hadn't discovered what he wanted to do.

It's not necessarily talk alone that puts over a proposition; it's suggestion, persuasion and determination.

You may have all the time in the world, but don't judge the importance of the other fellows' time by that of your own.

You can call a man up for a nickel, and you can call him down for nothing; but sometimes you have to pay for medical attendance.

Don't assume just because a man's working for you that he's your personal slave; in five years you might be working for him.

(Copyright, 1920, by S. A. Chandler.)

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class Every copy reaches a live prospect.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

If you want Trap Rock or Slag, any size or grit, we are headquarters for same. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co., Real Estate Trust Bldg., Phila.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.
Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

ARTESIAN WELL PUMPS.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BELTING
Bond, Chas., Co.....617 Arch St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
National Blue Print Co. .....38 S. 6th St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
National Blue Print Co. .....38 S. 6th St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

BRICK (Tapestry, Face, Common, Paving).
Collingdale Brick Co....Franklin Trust Bldg., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Pomeroy Const. Co. .....1609 Ranstead St., Phila.

BUILDERS' CANVAS.
Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

BUILDERS' SUPPLIES.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.

CEMENT.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Lehigh Portland Cement Co....Finance Bldg., Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.

CEMENT WORK.
Carter Paving Co.....639 N. 18th St., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Barrett Co., The.....New York and Philadelphia
Phila. Mineral Flooring Co..5632 Summer St., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Carter Paving Co. .....639 N. 18th St., Phila.

CONTRACTORS' EQUIPMENT.
Service Equipment Co. .....Bourse Bldg., Phila.

DAMPPROOFING.
Barrett Co., The.....New York and Philadelphia
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.

DRAWING MATERIALS.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

ELECTRICAL APPLIANCES.
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.

ELECTRICAL CONSTRUCTION.
Baird-Osterhout Const. Co..1620 Chancellor St., Phila.
Buchanan & Co., J. F.....1719 Chestnut St., Phila.

ELEVATORS.
A. B. See Electric Elevator Co., Colonial Trust Bldg., Phila.

ENGINEERS' SUPPLIES.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

FACE AND CUT STONE.
Holmesburg Granite Co..Commercial Tr. Bldg., Phila.

FENCES.
Anchor Post Iron Works, Real Estate Trust Bldg., Phila.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Pettit, Frank, Ornamental Iron Works, 809 Master St., Phila.

FIREPROOFING.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.
Truscon Steel Co. .....Commonwealth Bldg., Phila.

FLOOR PLATES.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Klein Stove Co. .....700 N. Front St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARDEN FURNITURE.
Voight Co. .....1743 N. 12th St., Phila.

GARAGE HEATERS.
Reeves Stove and Foundry Co..38 S. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GAS WATER HEATERS.
Apeldorn & Beatty Co.....155 N. 9th St., Phila.
Davis, Garfield W. .....34 S. 7th St., Phila.

GRANITE.
Holmesburg Granite Co.Commercial Tr. Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Ketcham, O. W. .....Builders' Exchange, Phila.

INSURANCE.
Beidler & Bookmeyer.....424 Walnut St., Phila.
Herman Hoopes, Inc..Real Estate Trust Bldg., Phila.
Stokes, Packard, Haughton & Smith, 434 Walnut St., Phila.
Wagner, Taylor, Edson Co., Inc.422 Walnut St., Phil.
Insurance Co. of North America, 3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Lederle, Robt. B. .....Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LEADED GLASS.
Potts, Elwood.....5438 Market St., Phila.
West Phila. Art Glass Works..4218 Market St., Phila.

LEVELS.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., & Co. .....1125 Chestnut St., Phila.

LIGHT IRON CONSTRUCTION.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Lederle, Robt. B.....Witherspoon Bldg., Phila.
Pettit, Frank, Ornamental Iron Works, 809 Master St., Phila.

LUMBER.
Irwin, James M., & Co.....973 Beach St., Phila.
Janney Lumber Co.....1147 Beach St., Phila.
Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

MAP AND POSTER MOUNTING.
National Blue Print Co. .....38 S. 6th St., Phila.

MARBLE MOSAIC.
Belfi Bros. & Co.....1923 Market St., Phila.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

METAL LATH.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co.....1345 Arch St., Phila.
Truscon Steel Co.....Commonwealth Bldg., Phila.

METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

MILL SUPPLIES.
Bond, Chas., Co.....617 Arch St., Phila.
Fairbanks Co., The.....7th and Arch Sts., Phila.

MORTAR COLORS.
French, Samuel H., & Co....4th and Callowhill Sts.

ORNAMENTAL IRON.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Lederle, Robt. B.....Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Pettit, Frank, Ornamental Iron Works, 809 Master St., Phila.

ORNAMENTAL PLASTERING.
Voight Co. .....1743 N. 12th St., Phila.

PAINTING (Plain and Decorative).
Griffey Decorative Co.....206 S. 13th St., Phila.
Kuehnle, C. Albert.....11 S. 16th St., Phila.
Murphy, John J., & Co. .....1835 Ludlow St., Phila

PAINTS AND VARNISHES.
Barrett Co., The.....New York and Philadelphia
French, Samuel H., & Co.....4th and Callowhill Sts.

PAVING BRICKS.
Ketcham, O. W. .....Builders' Exchange, Phila.

PHOTOGRAPHER (Commercial)
Hood, Harry S.....Keith's Theatre Bldg., Phila.

PIPE.
Griffith, James F. .....424 Moyer St., Phila.

PIPE FITTINGS AND VALVES.
Fairbanks Co., The.....7th and Arch Sts., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., St., Phila.
Johnson Co., Inc., J. D.....139 N. 7th St., Phila.
Vogel, Joseph, Co. .....Wilmington, Del.

PORCH COVERINGS.
Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

PRESERVATIVES (Wood and Concrete)
Barrett Co., The.....New York and Philadelphia

RANGES
Borden Stove Co. .....1311-13 Arch St., Phila.
Klein Stove Co. ....Front and Fairmount Ave., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATION, AUTOMATIC—"ISKO."
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.

REFRIGERATORS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Klein Stove Co. ....Front and Fairmount Ave., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

REINFORCING BARS.
Hammond, R. R., & Co.....Widener Bldg., Phila.
Truscon Steel Co. .....Commonwealth Bldg., Phila.
Witherow Steel Co. .....417 Widener Bldg., Phila.

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Barrett Co., The.....New York and Philadelphia
Dietz, C. A. .....4740 Market St., Phila.

ROOFING SLATE.
Dietz, C. A. .....4740 Market St., Phila.
Emack Co., John D. .....Otis Bldg., Phila.

ROOFING TILE.
Dietz, C. A. .....4740 Market St., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

SAFETY GUARDS.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.

SAFETY TREADS.
Hammond, R. R., & Co.....Widener Bldg., Phila.

SAND.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.
Sidley Silica Sand Co.....Widener Bldg., Phila.

SCALES.
Fairbanks Co., The.....7th and Arch Sts., Phila.

SCREENS.
Botts, E. G. .....5827 Spruce St., Phila.

SHEETROCK (Wall Board)
Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

SLATE.
Dietz, C. A. .....4740 Market St., Phila.
Emack Co., John D. .....Otis Bldg., Phila.

STEAM SPECIALTIES.
Apeldorn & Beatty Co.....155 N. 9th St., Phila.

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Artesian Well Drilling Co., Real Estate Trust Bldg., Phila.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.
Ridpath & Potter Co.....Bourse Bldg., Phila.

STRUCTURAL STEEL.
Lederle, Robt. B. .....Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.

STUCCO.
Sinclair & Schlipf.....1731 N. 53rd St., Phila.

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Beidler & Bookmeyer ..... 424 Walnut St., Phila.
Herman Hoopes, Inc..Real Estate Trust Bldg., Phila.
Stokes, Packard, Haughton & Smith, 434 Walnut St., Phila.
Wagner-Taylor-Edson Co., Inc.422 Walnut St., Phila.

TARPAULINS.
Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

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Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

TERRA COTTA (Architectural).
Ketcham, O. W. .....Builders' Exchange, Phila.

TERRA COTTA SEWER PIPE.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

TILE AND TERRAZZO WORK.
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French, Samuel H., & Co.4th & Callowhill Sts., Phila.
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Roman Mosaic & Tile Co.....435 Green St., Phila.

TRANSITS.
Robbins, Chas. H.....1209 Arch St., Phila.
Warren-Knight Co.....136 N. 12th St., Phila.
Weber, F., & Co.....1125 Chestnut St., Phila.

VACUUM CLEANERS.
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.
Davis, Garfield W.....18 S. 7th St., Phila.

WAGON COVERS.
Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

WALL BOARD (Sheetrock)
Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

WALL COPING.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

WASHING MACHINES.
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.

WATER HEATERS.
Borden Stove Co.....1311 Arch St., Phila.
Davis, Garfield W. .....34 S. 17th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

WATER PAINT.
Oeters, John C. .....1242 N. 31st St., Phila.
Southern, Wm. B., N. W. Cor. 12th and Spruce Sts., Phila.

WATERPROOFING.
Barrett Co., The.....New York and Philadelphia
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.

WATER SUPPLY SYSTEMS.
Harrison, Mertz & Emlen, Inc., Commercial Trust Bldg., Phila.
Keystone Supply & Mfg. Co.....927 N. 9th St., Phila.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.

WEATHER STRIP (Metal).
Botts, E. G. .....5827 Spruce St., Phila.

WHEELBARROWS.
Fairbanks Co., The.....7th and Arch Sts., Phila.

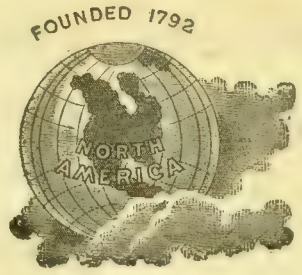
WHITEWASHING.
Oeters, John C. .....1242 N. 31st St., Phila.
Southern, Wm. B., N. W. Cor. 12th and Spruce Sts., Phila.

WINDOW GUARDS (Wire).
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.

WIRE PARTITIONS.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.

WIRE WORK.
Atlas Erecting & Mfg. Co.610 Birch St., Camden, N. J.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.

1792 FOUNDED 1792 1920



INSURANCE COMPANY OF NORTH AMERICA

PHILADELPHIA

Assets Over - - - $34,000,000
Capital - - - - 5,000,000

128 Years Old—Stronger than ever—Has paid every Loss with Promptness and Despatch—Very Good Reasons why this Company appeals to all.

When ordering your insurance, why not take advantage of our broad protection which costs no more than other companies?

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Tornado	Use and Occupancy	Marine
Sprinkler	Builder's Risk	Rent
Explosion	Tourist	Leasehold
Inland Transit	Strike	Parcel Post
Salesman's Floater	Riot & Civic Commotion	Registered Mail

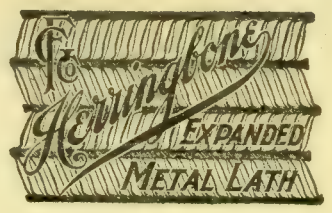
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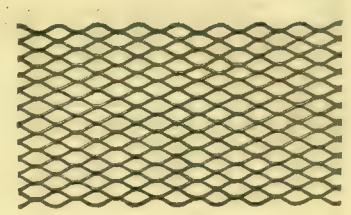
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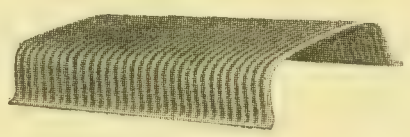
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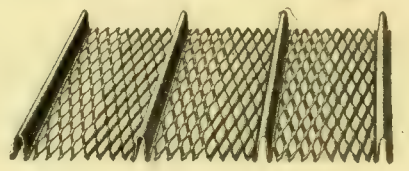
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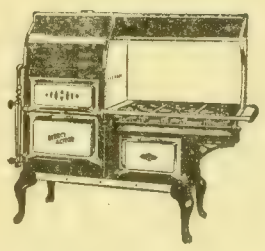
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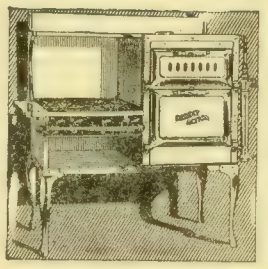


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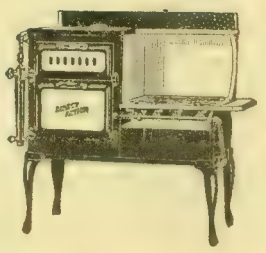
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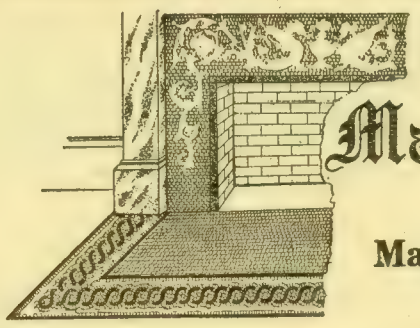
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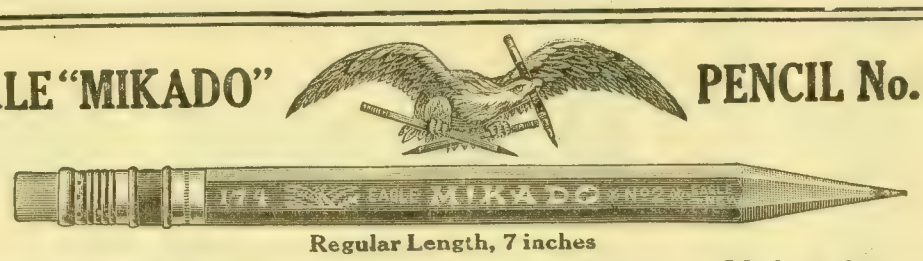
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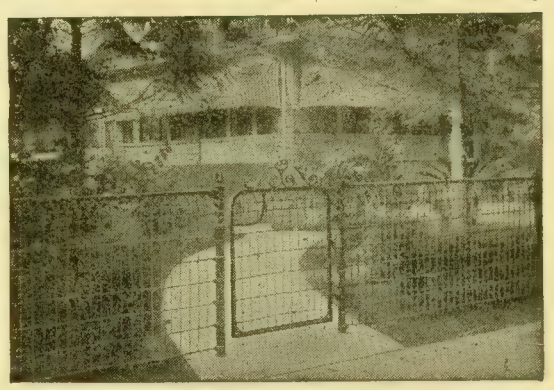
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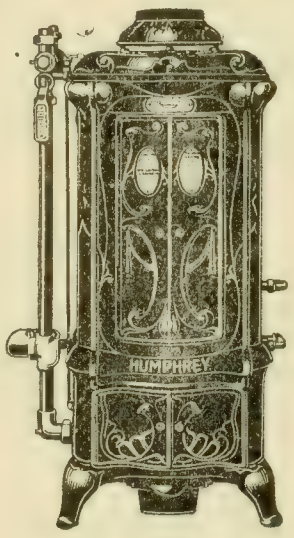
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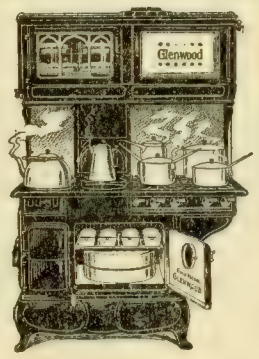
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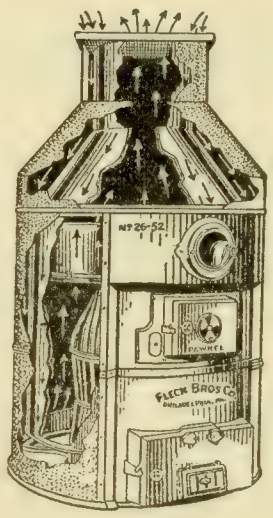


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 27

PHILADELPHIA
July 7, 1920

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

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BY

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As The Editor Sees It

THERE are two crying needs in the country today—housing and transportation, and in neither case is there any immediate prospect that the need will be met. Inasmuch as construction is greatly dependent on transportation, building interests are much concerned with both problems. It is easy to comprehend the seriousness of the situation when we learn that the railroads have been able to move only 3 per cent. of the 1919 wheat crop since April 15. Between now and September 1 there will be available for shipment 63,000,000 bushels of wheat, and transportation facilities for about 40 per cent. of the amount to be shipped.

The recent order of the Interstate Commerce Commission, says the *American Contractor,* which places all open top cars at the disposal of the coal miners, buries most of the few straggling hopes which remained on the part of shippers of sand, gravel, lumber, brick, and other materials which are needed to erect shelter for humanity and for industry. The building industry can obtain open tops only after the full needs of the mines have been met, provided that the building materials be loaded on the return trip to the mines and that the destination is not a point beyond the mines. This provision will allow for a very minor movement of the materials needed in various sections of the United States.

Just beyond the horizon of this spectre of losing all the gondolas lies the half cousin spectre of a big boost in freight rates and the possibilities of using all the cars for moving grain. The country needs and must have coal. We admit that. No industry is going to profit by a coal famine unless it be the landlord industry, which might profit at the expense of freezing tenants. We all want to see the grain shipped. No industry is going to profit by a hungry people. But we of the construction industry want to see some brick and lumber shipped, because we feel that even with food and with fuel there is going to be ultimate suffering and unrest if shelter is not provided. There is a mismanagement somewhere or a goodly share of food, fuel, and shelter materials could be shipped. Since the railroads have gone back to private control, we must blame inefficiency upon management which does not untie the knots which tie up transportation. Any man in any community can look around and see some mighty bonehead plays being made in this transportation game. Of course, patience is a cardinal virtue up to a certain point. But when that ponit is reached where the construction industry is turned down completely by the railroads upon their open admission of failure, it is time for every last man in the building game to open his eyes to see what is wrong, and seeing what is, to yell so loudly that the Interstate Commerce Commission and all other commissions wake to the fact that if every gondola in the United States were used to full capacity under effective management, even with present equipment, there might be shipped not only the coal, but other materials as well. Obviously this can not be done when the lackadaisical operation now in vogue as a result of switchmen's strikes and other factors which deter railroad operations. The construction industry has labor troubles enough of its own to know just how hard they are to solve, but in spite of them, the building game has not gone completely upon the rocks. Why not? Simply because more and more real initiative has been used in getting somewhere. What is very necessary now to the survival of industry is the taking of the kinks out of the railroads of the United States and when rates are raised the construction industry with its large freight bill must be eternally vigilant to see to its just rights.

* * *

IT IS evident that homes cannot be built without materials, yet it is imperative that homes be built. In order to meet the great deficiency in homes, construction must go ahead, not only with speed but with the utmost efficiency in methods of production. An interesting view of quantity house production, held by W. J. Parsons, president of the W. J. Parsons Housing Company

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BLUE PRINTS

of Chicago, comes to us through the *American Contractor,* which quotes:

"The chief merit of building houses in quantity is the *low price,* and money talks these days louder than ever. Another merit is the speed with which fifty, one hundred, or more, houses can be built when handled as one job by a large contractor. We can never catch up in home building by individual building. It is going to require *every* small and *every* large contractor to build to his limit for two to four years in order to wipe out the big shortage of homes. There is plenty of work for us all.

The building of many new industrial plants in the outskirts of our towns requires the building of large numbers of houses all at once for the employees of these plants. Individual house building will not meet the situation at all. The houses must be built by the hundreds and as quickly as possible. The financing of such projects is better and easier handled by one agency. It is clearly a wholesale proposition.

A great many of the large housing projects of the past have lacked character and beauty, but in the last four of five years there have been architectural treatments of both the houses and the villages which are very commendable. No housing projects nowadays, not even for coal mining or steel companies, have all their houses alike. They specify that no two houses in the same block will look alike and they insist upon it. The architects of the country are studying group housing and more and are producing fine results, and so we must not bewail the lack of character and beauty in quantity built houses any more.

It is all right for each one of us to want an individual house. It would be *fine* if we could build our own ideal home, but unfortunately most of us cannot afford to do it. The high cost of an individual home is too much and it is better for some of us to own a house just like our neighbor's than to live four deep in high-rental, cell-like apartments. It will be better for our children, ourselves and our pocketbooks."

* * *

THIS probblem is most interestingly discussed by Emile G. Perrot, of Ballenger & Perrot, New York and Philadelphia, in *General Fireproofing,* under the title Industrial Housing, and we print the article in full on another page.

POUR YOUR OWN HOME.

B. L. T. waggishly suggests in *The Minneapolis Journal* that "Pour Your Own Home" would be an excellent slogan for the builders of concrete habitations.

NEED OF STANDARDIZATION IN BUILDING.

Conditions during and since the war have brought home to everyone the necessity of maintaining production with less labor. Manufacturers have realized this, and have sought all possible means for securing greater efficiency.

The most effective means of increasing production and the basic cause of America's industrial growth is standardization. Elimination of duplications in products and parts has reduced the number of manufacturing operations and effected savings in time and labor.

Comparisons show how hopelessly inadequate the old methods would be under modern conditions. Compare the book of today, turned out by thousands on a modern printing press, each one exactly alike, with the methods of a few centuries ago when each book had to be laboriously written by hand. Every manufacturing industry presents illustrations just as striking.

In the building field, only initial progress has been made in standardization. In some lines such as steel sash a fair degree of standardization has been reached, but building in general still remains a strictly made-to-order proposition. Even in bricks, whose history dates back to the Pharoahs, one will hardly find two manufacturers making the same size.

The cause of the lack of standardization in the building field is largely a matter of evolution. Building being one of the oldest industries has developed processes and methods which have become traditional. In former times, it was simple and logical to build as one went along and to meet any indiivdual requirement. Labor and material were plentiful and inexpensive, and needs were not urgent. Modern times, and particularly the present day, will not permit of such methods if volume and economy of construction are to be obtained.

The greatest building need of the time is standardization. This means the elimination of hundreds of duplicate products which exist only out of traditional habit or personal whims. An instance of the adoption of standardized methods is the action of a number of reinforcing steel companies in eliminating half the duplicate bar sizes—an action which increases production of the rolling mills and makes available largel local stocks. Similar standardization is sure to take place throughout building.

Some critic of the foregoing may ask—"Are you not making all your buildings exactly alike, each one a monotonous repetition of the other? Are you going to eliminate all individuality and art from our structures?" By all means, no! The standardization of the units of construction does not affect in any way the combinations of these units. Designers have always built with units that were repetitions of one another. Bricks in a building are all one size, yet the arrangement of these bricks makes possible any desired effect, depending upon the skill of the designer. Standardization will not limit the designer, but will do away with a great part of waste now required by our hand-made methods.

Construction operations in the field must adopt more of the factory methods so that the skilled workman can make his time most effective. Many operations in building date back for centuries, so our erection forces should be able to profit materially by the study of American industry.—*Modern Building.*

HAPHAZARD CONSTRUCTION OF HOMES.

A prominent Ohio citizen was not especially enthusiastic about a building ordinance for the city, reports the National Lumber Manufacturers' Association, until he inspected recently the construction of 32 houses out of a total of 42 now under erection in the town. The local dealer who is erecting these houses has violated nearly every possible law of good building. The foundations to grade are concrete poured dry and are cracked. From grade to sill cement blocks are set together without even a pretense of mortar in joints. He fills the joints inside and out after the building is up. The posts in the basement are misplaced. The spiked bearing member in his floor was in the way of a furnace pipe, so he cut into the member and laid a short run pipe against the bearing member without any insulation. If the register above is shut off with a hot fire going and possibly children sleeping in the house, it would not take an expert to forecast the probable result. If a joist interfered with placing a register box, he would cut out the joist and use two by four headers spiked in. The woodwork was spiked to the flue—this alone being sufficient to condemn the structure so far as fire safety is concerned.

Even a novice in building laws can see the fire hazard in such houses and the urgent need of city building regulations which would not permit such careless construction. And yet if such a dwelling should be burned, many would thoughtlessly lay the old-time blame upon frame construction or shingle roofs, whereas the fault should be absolutely credited to the violation of almost every law of building known to the profession.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

School, Sixty-fourth and Buist avenue, Philadelphia. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owner, St. Barnabas R. C. Church, care of Rev. James E. Dougherty, on premises. Brick, stone and steel, 3 stories, 64 by 147 feet; composition roof, maple floors, metal lath, safety treads, iron work, hollow metal doors, terrazzo and marble work, electric lighting, stone foundation. Architect taking bids, due July 14th. Frank G. Stewart, 1619 Sansom street.; Doyle & Co., 1519 Sansom street; P. J. & J. R. Whelan, 1011 Chestnut street.; R. C. Ballinger & Co., 218 N. Thirteenth street, and A. R. Raff Contracting Co., 1635 Thompson street are figuring.

School (Alts. and add.), Seventeenth and Christian streets, Philadelphia. Architect, private plans. Owners, Board of Education, care of J. H. Cassell, Superintendent of Buildings, Nineteenth and Chestnut streets. Brick and stone, 3 stories, 25x17 feet, composition roof, cement and maple floors, metal lath, safety treads, metal ceilings, waterproofing, iron work, hollow metal sash, stone foundation. Owners taking bids due July 8th. Bowdon Construction Co., 1713 Sansom street, and Monaghan & Losse, Inc., 3016 Chestnut street; J. H. Jordan, Thirty-first and Oxford streets; Mitchell Bros., 2125 Race street; Robbins Contracting Co., 1113 N. Front street, and E. C. Durell, 1713 N. Twenty-fourth street, are figuring.

Sewers, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Joseph C. Wagner, Acting Director, Room 416, City Hall, Philadelphia. Main sewers, branch sewers, Rock Run extension in Ontalauna street, Sixty-sixth avenue, north Eighteenth street and Sixty-seventh avenue, north, Rock Run extension in Ogantz avenue, 12-inch cast-iron pipe across Godfrey avenue at Seventh street, Frankford Creek High Level intercepting sewer, retaining walls along Wingohocking Creek. Owners taking bids due July 14th at noon in Room 216, City Hall, Philadelphia.

Store Building (Alts.), 916 S. Fourth street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, Joseph Feinstein, 936 South Fourth street, Philadelphia. Metal lath, plastering, iron work, roof repairs, carpentry and millwork, marble and tile work, metal ceilings, painting and glazing, electric lighting (heating, paper hanging and gas range, reserved). Architect taking bids due July 8th. Lam Building Co., 1001 Wood street, Smith-Hardican Co., 1606 Cherry street; George H. Evans Co., 45 North Thirteenth street; John Schnable Co., Denckla Building; J. W. Kohl, 1401 Corlies street; Ellis & Fisher, 344 North Fourth street, and Conneen Construction Co., 10 South Eighteenth street, are figuring.

Residence (Alts. and Add.), 1235 Pine street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Edwin A. Fleisher, 1235 Pine street, Philadelphia. Carpentry, millwork, repairing skylights, hardware, painting, glazing, metal ceilings, composition floors, electric work. Architect taking bids due as soon as possible. John Schnable & Co., Denckla Building, and D. Henwood, 717 South Sixty-third street, are figuring.

Store (Alts.), Northeast corner Eighth and Noble streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Lewis Greenberg, on premises. Alterations to first floor of building, 30x30 feet, plastering, hot-air heating, electric lighting, brickwork, carpentry, millwork, metal ceilings, flush bulks, iron work, sheet metal work. Architects will be ready for bids in a few days.

Building (Alts.), 1117 Arch street, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Changing record room into electric sub-station, concrete work, steel and iron work, terra cotta partitions, painting, steel sash, hardware, steel doors. Owners taking bids due July 10th. H. E. Baton, 1713 Sansom street, and F. A. Havens & Co., 845 North Nineteenth Street, are figuring.

Residence (Alts. and Add.), 1928 Rittenhouse street, Philadelphia. Architect, private plans. Owner, W. R. Morton Keast, Commonwealth Building, Philadelphia. Brick, three stories, 12x12 feet, slate roof, stone foundation, iron work (heating, electric lighting and finished floors, reserved). Owner has received bids.

Garage, Palmer and Beach streets, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Judson M. Zane, Land Title Building, Philadelphia. Brick and steel, one story, 224x85 feet, slag roof, cement floors, stone foundation, steam heating, electric lighting. Plans in progress.

Synagogue (Alts.), Seventh above Columbia avenue, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, Ohel Jacob Synagogue, on premises. Stone work, plastering, steam heating. Architect has sub-let contracts.

Grading and Drainage for (2) Football Fields. City Line avenue, Overbrook, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Engineers, Albright & Lebus, Land Title Building, Philadelphia. Architects taking bids due July 7th. A. C. Shand, Jr., Land Title Building; Thomas Reilly, 1616 Thompson street; Leonard Morse, 1524 Chestnut street; R. B. Wenner, 3106 Midvale avenue, and Morris Wolf, Weldon, Pa., are figuring.

Grading, Paving and Supplies, City of Philadelphia. Owner, City of Philadelphia, Department of Public Works, care of Joseph C. Wagner, Acting Director, Room 232, City Hall, Philadelphia. Grading, granite block paving, equipment and materials for Municipal Asphalt Plant, asphalt and fuel oil storage tanks, derrick, electric hoists, asphalt pump, portland cement, concrete sand and pebbles, straight hard brick. Owners taking bids due July 9th at noon in Room 216 City Hall, Philadelphia.

Residence, Forty-seventh and Larchwood avenue, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, name withheld. Brick 2½ stories, 31x45 feet, 16x21 feet, slate roof, hardwood floors, vapor heating, electric lighting. Steines Brothers, Bywood, Pa., is taking sub-bids.

Garage, Southeast corner Broad and Wharton streets, Philadelphia. Architect, Frank V. Nickels, 4400 Manayunk avenue, Philadelphia. Owner, John E. Real, 27 North Tenth street, Philadelphia. Brick, one story, 24x90 feet, slag roof, cement floors, steam heating, electric lighting, stone foundations, corrugated iron partition. Architect will take bids in a few days.

Municipal Pier, Chestnut street, Delaware River, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, City of Philadelphia, Bourse Building, Philadelphia. Timber, concrete and steel. Preliminary plans being drawn.

Building (Alts.), 1718 Cherry street, Philadelphia, $5000. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Geo. Vaux, Jr., Bryn Mawr, Pa. Stucco front, plastering, millwork and metal lath. Architects are sub-letting.

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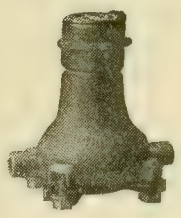
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Store Building, Southeast corner Eleventh and South streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Simon Rubin, care of architect. Brick and steel, three stories, 18x60 feet, slag roof, pine and oak floors, hot water heat, electric light, tile and marble work, iron work. Plans about completed. Will be ready for bids in one week.

Stone. (Alts.), 1427 South street, Philadelphia. Architect, private plans. Owner, William Rabinovitz, on premises. Brick, one story, 15 x 155 feet rear addition, slag roof, pine floors, hot water heat, electric lighting, flush bulks. Owner taking bids due July 7th. F. A. Havens & Co., 845 North Nineteenth street, is figuring.

School (Alts.), Seventeenth and Pine streets, Philadelphia. Architect, private plans. Owners, Board of Education, care of J. H. Cassell, Nineteenth above Chestnut street. Brickwork, slate work, iron work, roof repairs, sheet metal work, metal lath, plastering, pine floors, painting, glazing, hardware. Owners taking bids due uly 8th. Bowden Construction Co., 1713 Sansam street; Monaghan & Losse, Inc., 3016 Chestnut street; J. H. Jordan, Thirty-first and Oxford streets; Mitchell Brothers, 2125 Race street; Robbins Contracting Co., 1137 North Front street, and E. C. Durell, 1713 North Twenty-fourth street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Motion Picture Theatre, Fairmount avenue near Forty-fourth street, $50,000. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owners, Philadelphia Investment Amusement Corporation, 2042 South street, Philadelphia. Brick and steel, one story, 40x160 feet, slag roof, stone foundation, cement floors, electric lighting, waterproofing, iron work. Contract awarded to Penn Construction Co., Bulletin Building, Philadelphia, but not yet signed.

Office Building, 4945 Wakefield street, Philadelphia, $8,000. Architect, private plans. Owners, C. Walker Jones, Inc., 4947 Wakefield street, Philadelphia. Brick, one story, 27x54 feet, slag roof, stone foundations, pine floors. Contract awarded to William F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia.

Garage, 830 North Hancock street, Philadelphia, $3,000. Architect, private plans. Owners, G. Williams Supply Co., on premises. Brick, one story, 21x38 feet, slag roof, cement floors, electric lighting. Contract awarded to Fred Zimmerman, 2654 South Seventy-second street, Philadelphia.

Store (Alts.), 5608 Germantown avenue, Philadelphia. Architect, Amos W. Barnes, 1507 Arch street, Philadelphia. Owners, Label Cigar Shops, Fifteenth and Arch streets, Philadelphia. Lowering floors, tile work, electric work, plumbing, metal bulks, and general alterations. Contract awarded to George A. Glenn Co., Ninth and Columbia avenue, Philadelphia.

Factory (Fire Repairs), Northeast corner Adams and Gaul streets, $50,000. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Lowry Top & Body Co., on premises. General reconstruction; brick, two stories, carpentry, brickwork, slag and tin roof, steam heating, plumbing, electric lighting, wood floors, freight elevator, sheet metal work, painting, glazing. Contract awarded to Mitchell Bros., 2125 Race street, Philadelphia.

Hall (Alts.), Thirty-eighth and Market streets, Southeast corner, $8,500. Architect, private plans. Owner, West Philadelphia Council, Knights of Columbus, on premises. General alterations. Contract awarded to Jas. J. Murphy, 3649 Ludlow street, Philadelphia.

Mill Building (Alts.), 1849 East Venango street, Philadelphia, $6,000. Owners, Florence Knitting Mills Co., on premises. New sash and frames. Contract awarded to Kober Construction Co., 34 South Seventeenth street, Philadelphia.

Garage, Southeast corner Wayne avenue and Queen Lane, $5,000. Owner, D. F. Waters, on premises. Brick, two stories, 20x36 feet, slag roof, hot water heat, electric light, cement floors. Contract awarded to Conneen Construction Co., 10 South Eighteenth street.

Residence Alts.), Chestnut Hill, Philadelphia. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, Daniel Hebard, Chestnut Hill, Philadelphia. Painting, millwork, hot water heat, electric lighting, plumbing. Contract awarded to Fred Elvidge & Son, 5522 Germantown avenue.

Residence (Alts.), Prospect and Summit avenues, Chestnut Hill, Philadelphia. Architect, Herbert J. Wetherill, 430 Allen Lane, Chestnut Hill. Owner, Frederick M. Dunn,

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320 Walnut street, Philadelphia. Minor alterations to interior. Contract awarded to William C. Wright, 22 Harvey street, Philadelphia.

Residence, Boyer street near Mt. Airy avenue, $13,500. Architect, private plans. Owner, Carl Hassold, 107 Green street. Brick, two stories, 34½x29 feet, shingle roof, oak floors, hot water heating, electric lighting, tile work. Contract awarded to W. H. Megargee, 124 East Gorgas street, Philadelphia.

Hotel (Alts.), Southwest corner Broad and Walnut streets, Philadelphia, $10,000. Owner, Bellevue-Stratford Hotel, on premises. Architect, private plans. General alterations. Contract awarded to France & Missar, 3324 Chestnut street, Philadelphia.

Residence (Alts.), 2231 West Venango street, Philadelphia, $5,000. Architect, private plans. Owner, H. H. Slate, 2064 Ridge avenue, Philadelphia. General alterations and additions, electric lighting, flush bulks. Contract awarded to Max Siegel, 1837 North Franklin street, Philadelphia.

Residence (Alts. and Add.), Fifty-third and Gainor streets, Philadelphia, $2,600. Architect, private plans. Owner, Will Crow, on premises. Brick, second-story addition, 18½x9½ feet, and two-story addition 18x6½ feet, slag roof, electric lighting. Contract awarded to H. B. Boorse, 665 North Fifteenth street, Philadelphia.

Residence (Alts.), 3827 Poplar street, Philadelphia, $2,100. Architect, private plans. Owner, Nathan Atkin, on premises. General alterations. Contract awarded to A. Diamond, 3912 Pennsgrove street, Philadelphia.

Store and Office Building, Northwest corner Fifty-second and Market streets, Philadelphia. **Architect,** E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Mohr & Kelley, 5734 Whitby avenue, Philadelphia. Brick, three stories, 37x20 feet, slag roof, oak and pine floors, metal lath, fire escapes, iron work, tile and marble work, electric light, stone foundation (heating reserved). Contract awarded to J. D. Fisher, 5414 Thompson street, Philadelphia.

Garage, 3648 Frankford avenue, Philadelphia, $5,000. Architect, private plans. Owner, George W. Murdock, on premises. Brick, one story, 36x60 feet, slag roof, steam heating, electric lighting, cement floor. Contract awarded to William McFarland, 3648 Frankford avenue, Philadelphia.

Platform (North Bound), Columbia Avenue Station, P. & R. RR. Architect, private plans. Owners, P. & R. RR., Reading Terminal, Philadelphia. Demolition of present platform and new reinforced concrete platform. Contract awarded to Carter Paving Co., 641 North Eighteenth street, Philadelphia.

Motion Picture Theatre (Alts.), 1209 East Chelten avenue, $2,000. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, M. A. Benn, 5814 Springfield avenue, Philadelphia. General alterations. oCntract awarded to M. Stackhouse, 6071 Reinhardt street, Philadelphia.

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Construction News

Apartment House, Lansdowne, Pa., $125,000. Architects, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, F. M. Longstreth, care of architect. Brick, concrete and steel, 4 stories, 40x78 feet and 40x78 feet, L shaped, slag roof, maple and terrazzo floors, hollow tile, (2) elevators, stone foundations, steam heating, electric lighting, tile and marble work, mill work, hollow metal skylights, fire doors, fire tower, iron stairs, ornamental iron work. Architect is taking bids.

Charter House Hotel (alts.), Media, Pa. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owner, Media Title & Trust Co., Media, Pa. Composition floors, tile and marble work, hardware, carpentry, mill work, heating repairs, plumbing, electric work. Architect taking bids due July 16th. John R. Wiggins Co., Otis Building, Philadelphia, is figuring.

Residence, Lansdowne, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Alex. Wilson, Jr., 5156 Haverford avenue, Philadelphia. Stone and brick, 3 stories, 28x40 feet, wing 18x18 feet, slate roof, hardwood floors, stone foundations, hot water heating, tile and marble work, combination lighting. Owner is ready for sub-bids.

Residence, Allentown, Pa. Architect, H. Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owner, F. P. Bieret, Allentown, Pa. Brick and brick plastered, 2½ stories, 24x43 feet, Spanish tile roof, hardwood floors, hot water heat, electric lighting, tile work, plumbing. Owner is ready for sub-bids.

Charter House (alts.), Media, Pa. Architect, C. Brazer, Crozer Building, Chester, Pa. Owner, Media Title & Trust Co., Media, Pa. General interior work, steam heating, new plumbing, electric wiring. Architect taking bids due July 16th.

Residence (alts.), Yardley, Pa. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, William Scammel, Yardley, Pa. General interior alterations. Owner will build.

Pennsylvania Contracts Awarded

Church, Johnson City, Pa. Architect, Paul Monaghan, Bailey Building, Philadelphia. Owner, St. Anthony's Roman Catholic Church, care of Rev. Thomas Bartol, Johnson City. Brick, 1 story and basement, 50x80 feet, stone foundations, slate roof, steam heating, electric lighting, marble work. Contract awarded to Joseph Osinski, Johnson City, Pa.

Replacement Bridge, adjacent to Bridge No. 55, Shippensburg, Pa. Architect, private plans. Owners, Philadelphia and Reading R. R. Co., Reading Terminal, Philadelphia. I beam superstructure, 2 span, 13½ feet. Contract awarded to American Bridge Co., Widener Building, Philadelphia.

Bank (alts. and add.), North Wales, Pa.

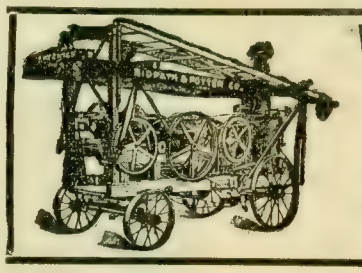


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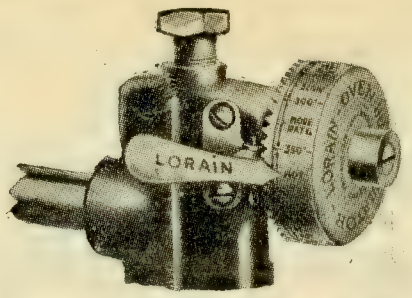
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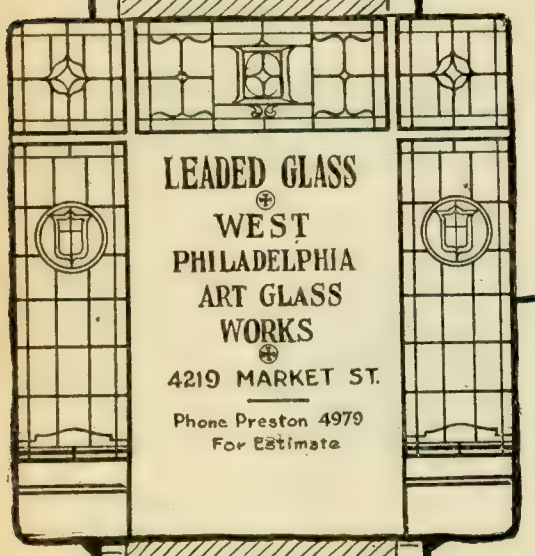
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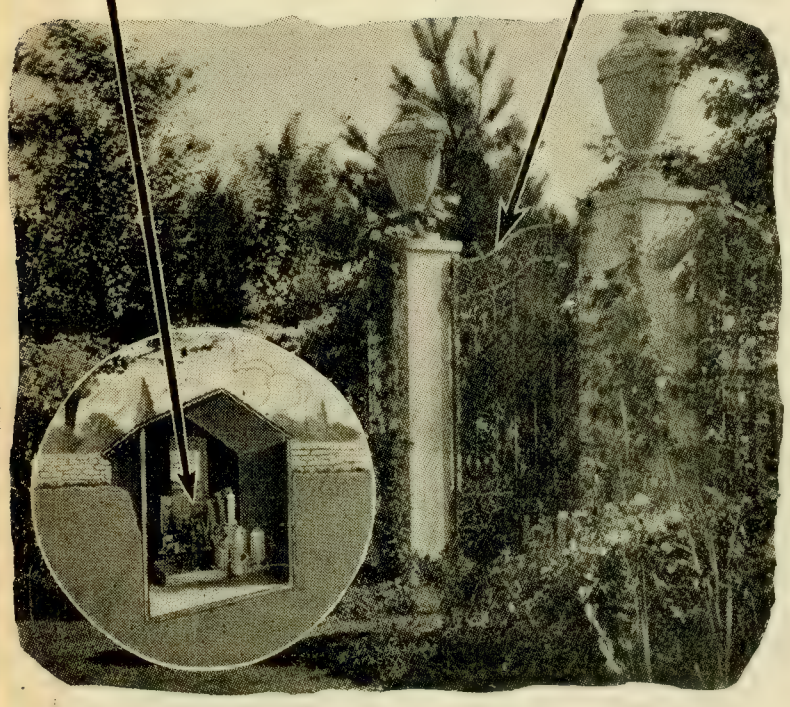
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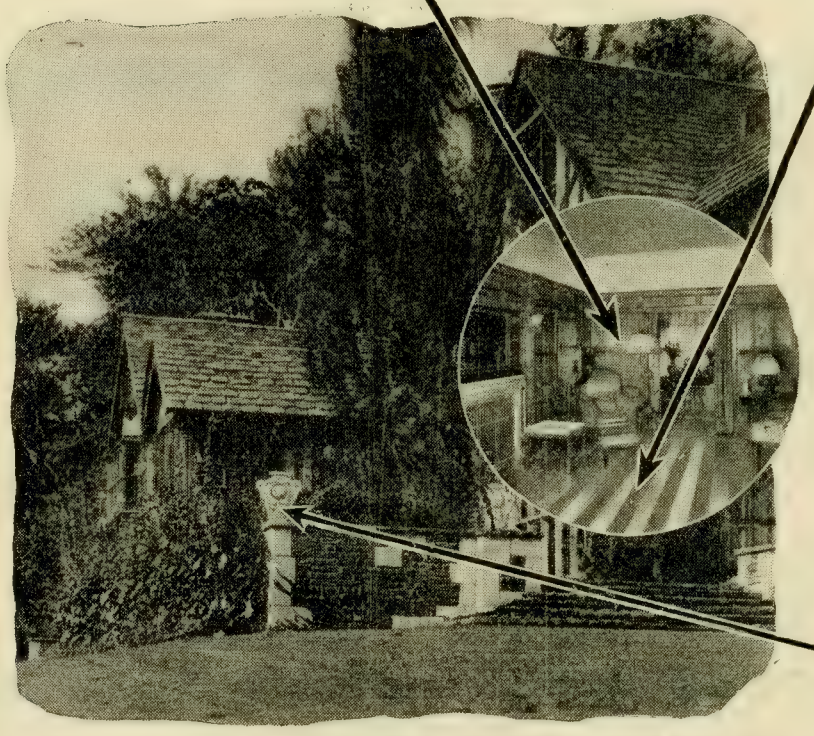
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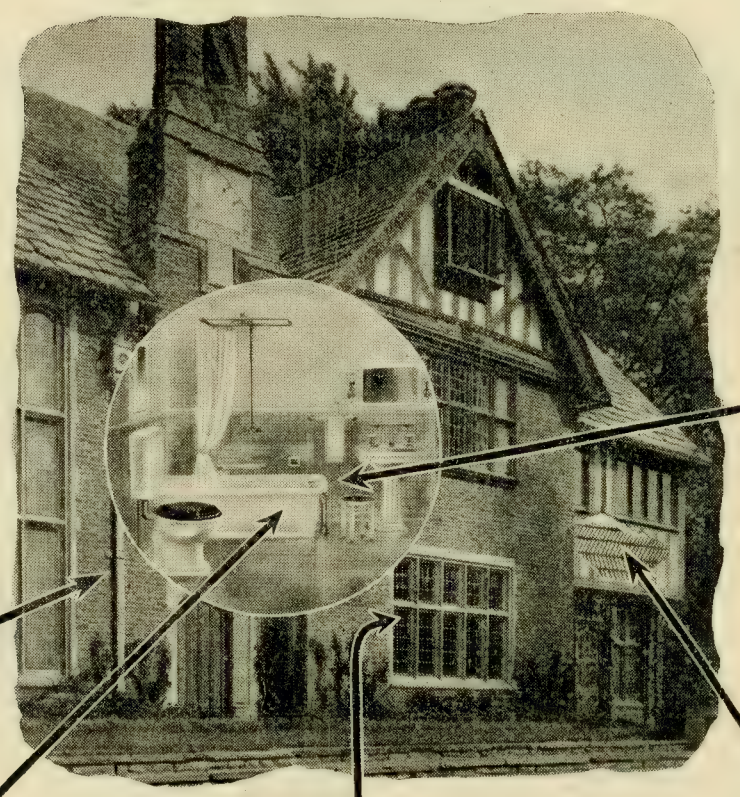


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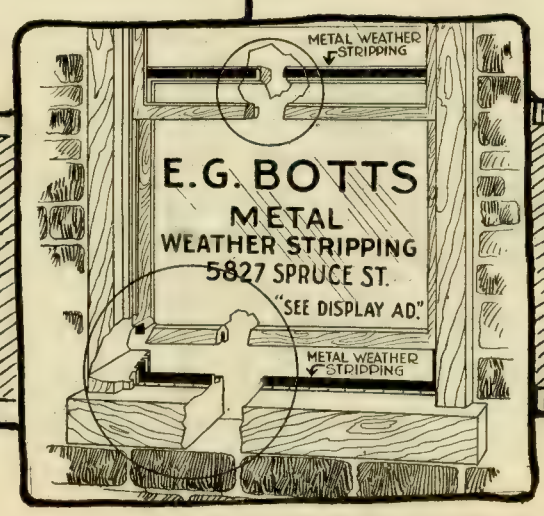






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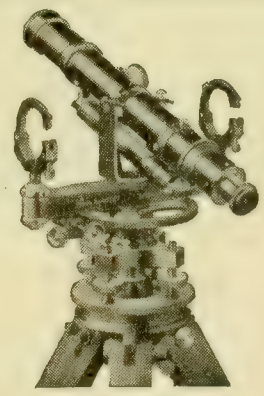
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Architect, Edwin G. Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, North Wales National Bank, North Wales, Pa. Stone, 2 story add., 23x27 feet, slate roof, pine floors, concrete vault, heating and lighting extensions. Contract awarded to W. D. Lukens, North Wales, Pa.

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.

New Jersey Construction News

Garage and Service Building, 343 Kings Highway East, East Haddonfield, N. J. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, William P. Hallinger, 539 Market street, Camden, N. J. Plans in progress. Too early for details. Architect selected.

Office Building, Camden, N. J. Architects, Paul A. Davis, 3rd, 1713 Sansom street, and Arthur Truscott, associate architect. Owners, Camden Fire Insurance Association, Fifth and Federal streets, Camden, N. J. Plans will be erady in a few days. The following contractors are invited to figure: H. E. Baton, 1713 Sansom street; Cramp & Co., Denckla Building; Standard Const. Co., 1713 Sansom street; Frank G. Stewart, 1619 Sansom street; George Bachmann, 19 North Thirtieth street; James W. Draper, 436 Haddon avenue, and Lewis T. West, 828 Broadway, all of Camden, N. J., are figuring.

Residences (2), Chestnut avenue, Trenton, N. J., $12,000. Architect, Robert Schuman, 932 Lambert street, Trenton, N. J. Owner, Alois Koler, care of architect. Brick, 2½ stories, 16x30 feet, cement block foundations, slate and tin roof. Architect taking sub-bids.

Store (alt. and add.), North Broad street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, J. Epstein, American Mechanics Bank Building, Trenton. Brick, 1 story, 22x24 feet, slag roof, pine floors, tile work, plate glass, rolled steel skylights, electric wiring. Architect has received bids.

Home for Feeble Minded, Vineland, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, State of New Jersey, care of Dr. Thorn, Vineland, N. J. Brick, 2½ stories, 105x50 feet, concrete foundations, slate roof, hardwood floors, electric light, tile work, roof ventilators. Low bidder: George W. Shaner & Son, Palmyra, N. J.

Docks and Wharves, Camden, N. J. [Delaware River). Engineer, William D. Sayre, Room 11, City Hall, Camden, N. J. Owner, City of Camden, Harbor Commission, City Hall, Camden, N. J. Timber piles, reinforced concrete and steel, 102 feet wide and 470 feet long, steel sheds (electric lighting reserved). Engineer taking bids due July 30th at 8 P. M.

New Jersey Contracts Awarded

Club House, 315 Cooper street, Camden, N. J., $100,000. Architect, Walter W. Sharpley, 1713 Sansom street, Philadelphia. Owners, Camden Club, care of Charles K. Haddon, care of Victor Talking Machine Co., Camden, N. J. Brick and plaster, 3 stories, 150x50 feet, slag roof, composition and maple floors, hollow tile, metal lath, stone foundations, electric lighting, tile and marble work, iron work. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

Schools (3), Jericho, N. J., Blackwood Terrace, N. J., and New Sharon, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education of Depford Township, N. J. Cement, 1 story, 30x70 feet. Contracts awarded to Neilson & Carlson, Wenonah, N. J.

Fire Protection, Trenton, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, State Hospital, care of architect. Two new fire towers, iron rails, slate roof, steel stairs. Contract awarded to Carl Poinsett, Trenton, N. J.

Water Tank, Vineland, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owner, Home for Feeble Minded, care of architect. Reinforced concrete, 37x17 feet, 15 feet high, asbestos shingle roof, cement floors, 200 feet 6-inch cast iron pipe, iron lad-

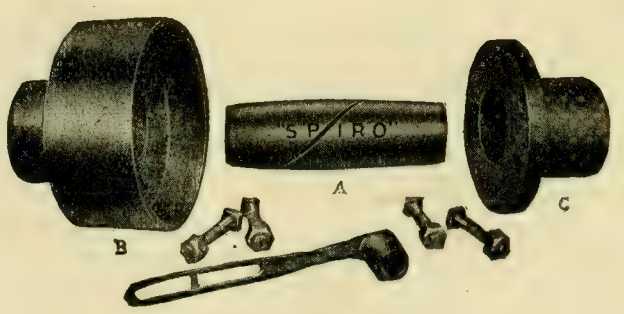
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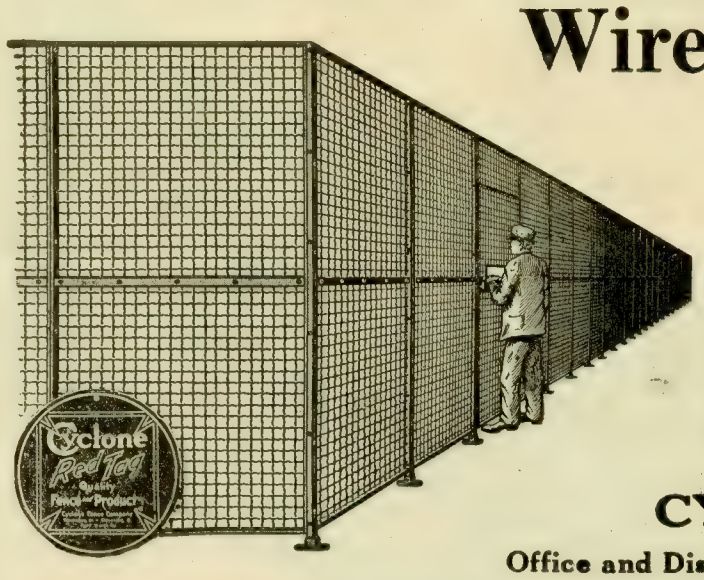
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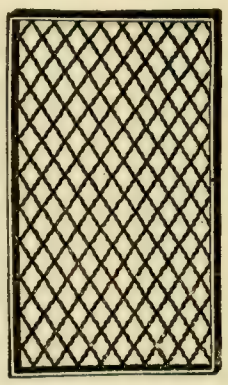


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der. Contract awarded to T. Pasqualle, Vineland, N. J.

Reformatory, Clinton, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, New Jersey Reformatory for Women, care of Miss Robson, on premises. Hollow tile and stucco, 2½ stories, 102x40 feet, concrete foundations, slate roof, hardwood floors, electric light, tile work, simplex windows. Contract awarded to Carrol & Pullen, Princeton, N. J.

Laundry, Clinton, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, care of architect. Brick, 1 story, 64x60 feet, slate roof, wood and concrete floors. Contract awarded to Carrol & Pullen, Princeton, N. J.

Residence, 1270 South Broad street, Trenton, N. J., $5,000. Architect, private plans. Owner, Mary A. Nutt, 1321 South Broad street, Trenton, N. J. Frame and stucco, 1½ stories, 16x42 feet, concrete block foundations, slate roof, pine floors, electric lighting. Contract awarded to D. W. Wright, 816 Division street, Trenton, N. J.

DELAWARE

Contracts Awarded

Sugar Refining Plant, Christiana avenue, Wilmington, Del., $10,000,000. Engineer, private plans. Owners, Wilmington Sugar Refining Co., care of Adolph Segal, Hotel Hanover, Philadelphia. Brick, steel and concrete, details undecided, steam heating, electric lighting. Contract awarded to Armstrong & Latta Co., Land Title Building, Philadelphia.

Store and Dwelling (alts. and add.), Fourteenth and King streets, Wilmington, Del., $5,000. Architect, private plans. Owner, Mrs. Louis Steinke, on premises. Brick, 2 stories, 21x16 feet, interior alterations. Contract awarded to F. Wickstrow, 1308 French street, Wilmington.

Residence (alt. and add.), 1003 Broome street, Wilmington, $5,000. Architect, private plans. Owner, Rev. C. L. Candee, on premises. Brick, 1 story, 2 baths, interior alterations. Contract awarded to W. Howard May, 1014 Rodney street, Wilmington, Del.

Office Building, Christian avenue, Wilmington, Del., $10,000. Architects, Armstrong & Latta Co., Land Title Building, Philadelphia. Owners, Wilmington Sugar Refining Co., Adolph Siegel, Hanover Building, Philadelphia. Frame, 2 stories, 18x90 feet, pine floors, electric lighting. Contract awarded to Armstrong & Latta Co., Land Title Building, Philadelphia.

Miscellaneous Construction News

Bakery and Stable, Nevin and Butler streets, Brooklyn, N. Y. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, New York Pie Baking Co., 82 Sullivan street, New York City. Reinforced concrete and steel, 4 and 3 stories, brick and hollow tile partitions, concrete piling (elevators, heating, lighting and plumbing reserved), rolled steel sash, hollow metal skylights, fire doors, iron stairs, mill work, dampproofing, cement floors, slag roof. Architects taking bids due July 13th at New York office. American Concrete Steel Co., Newark, N. J.; William L. Crowe Const. Co., 103 Park avenue; Industrial Eng. Co., 30 Church street; Turner Const. Co., 242 Madison avenue; Northeastern Const. Co., 101 Park avenue; White Const. Co., Inc., 95 Madison avenue; Milton Zeisler, 40 Cedar street; John K. Tutton Corp., 101 Park avenue, New York City, and John Thatcher & Son, Brooklyn, N. Y., are figuring.

Theatre, Store and Apartments, 1300 block, Pennsylvania avenue, Baltimore. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Douglas Amusement Co., care of architects. Brick, concrete and steel, 4 stories, 100x175 feet, composition or slag

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roof, steam heating, electric lighting. Architects are now ready for bids.

Store Building, 2102 Monument street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Morris Klein, on premises. Brick, 3 stories, 18x90 feet, slag roof, brick foundations, pine floors, hot water heating, electire light, tile and marble work, plate glass. Architect will be ready for bids in two weeks.

Temple (alts.), 1914 Madison avenue, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Madison Avenue Temple, on premises. General remodeling of basement for assembly room, stage and dressing rooms, general alterations. Architect taking bids due July 12th. R. B. Mason and Christian F. Richter, both of Baltimore, Md., are figuring.

Store Building (alts. and add.), 701-05 South Broadway, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building. Owner, Henry Waldorf, on premises. Brick, 45x80 feet, new fronts, general alterations. Contract awarded to R. B. Mason, Baltimore, Md.

INDUSTRIAL HOUSING

By Emil G. Perrot.
Member Am. Soc. C. E.
Of Ballinger & Perrot, New York and Philadelphia.

"Princes and lords may flourish or may fade;
A breath can make them, as a breath has made;
But a bold peasantry, their country's pride,
When once destroyed, can never be supplied."

—*Goldsmith.*

The most important part of an industrial operation is the human part—the men and women who run it. Machines are important. Factory buildings are important. But they are also useless without the men and women; whereas men and women could, in a pinch, make progress without either the machines or factories, as was the case before the invention of machinery.

Yet, although this supreme importance of the delicate human equation is pretty generally admitted theoretically, it has been almost totally ignored in practice.

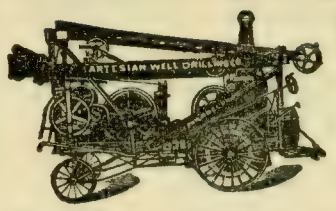
Plans for factory buildings receive the most painstaking care; factory machines are solicitously nursed so that their production will constantly punch the maximum notch; but factory workers are left to shift for themselves after working hours. Can any one conceive a captain of industry permitting his costly machines to be sheltered in any old fashion after working hours? Can any one picture him withdrawing all thought and guard from his factory after the lights are out? But it requires no stretch of the imagination to fancy this same captain totally oblivious to the welfare of his industrial aids, after the day's work is over.

If we grant that the need of the hour is accelerated production, and that accelerated production is dependent not only on the number of workmen, but on the character of workmen, we must of necessity admit that the housing of the workmen is of prime importance.

Disraeli says that the house is one of the most important factors in shaping the true growth of the individual. Ramshackle dwellings cannot fail to impress their character upon their inmates, and ramshackle workers cannot fail to im-

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press their character upon their work.

Industrial housing is more than a mere question of providing some sort of shelter for employees. If this were the only consideration involved, a row of barracks or barns hastily erected at a trifling expense would make everything serene. Unfortunately, or rather fortunately, the question is not merely how to keep the rain on the roof, or the four winds on the outside of walls, but how to provide houses that will develop the best traits ingrained in every human soul. Houses cannot do it all, but houses can do a lot.

Heretofore the demand for houses has been supplied by the speculative builder and the real estate operator, but owing to the present abnormal prices of labor and building materials, they can no longer afford to build and sell at a profit in the open market. Nor can any definite rental returns be counted upon under the present precarious and changing conditions; while, at the same time, the demand for better houses is continually increasing, the supply is almost at a standstill. Then, again, owing to the offer of more remunerative investments in the industrial centers, the speculative builder has great difficulty in securing construction loans to finance housing projects. Speculative capital always flows into those enterprises which offer the largest and safest returns.

So long as congestion is tolerated, low housing standards permitted and the cost of labor and material is low, sufficient capital to maintain these low standards can be obtained by speculative builders. With the better education of the workmen and their constantly increasing demand for better surroundings, there follows a gradual diminution of profit and consequent withdrawal of capital for this purpose. The manufacturer is confronted with the certainty that industrial housing, to meet his needs, will not be financed by local investors as in former years.

And in industrial housing, the speculative builder only considers the matter of profit, and for that reason cannot have the proper viewpoint. *Industrial housing salvation lies in the laps of industrial captains.*

The evil influence of unsanitary houses cannot be underestimated. Statistics computed in various cities all prove conclusively that tuberculosis and other contagious diseases, crime, and the social evil are most prevalent in those areas having the maximum density of population. Statisticians estimate that the wage earners in the State of New York undergo an annual loss of twenty million working days a year on account of sickness. This is equal to the complete effort of more than 66,000 workers on the basis of 300 working days per year.

Proper care of infants cannot be secured in dwellings where housing evils exist. Sufficient room, conveniences which minimize the mother's household labors, well-constructed buildings which insure freedom from dampness and drafts, adequate toilets, provision for the admission of sufficient sunshine—all of these react to the welfare of the infant and the mother, upon whom the infant depends for care.

A recent report on infant mortality shows a steady increase of infant deaths in proportion to the increased number of families residing in one dwelling, or tenement. In the 1-tenement (one family) dwelling it was 88; in the 4-tenement, it was 174. The infant mortality rate for infants living in alley or rear houses was 172, while for those living in houses with street frontages, it was 120.6.

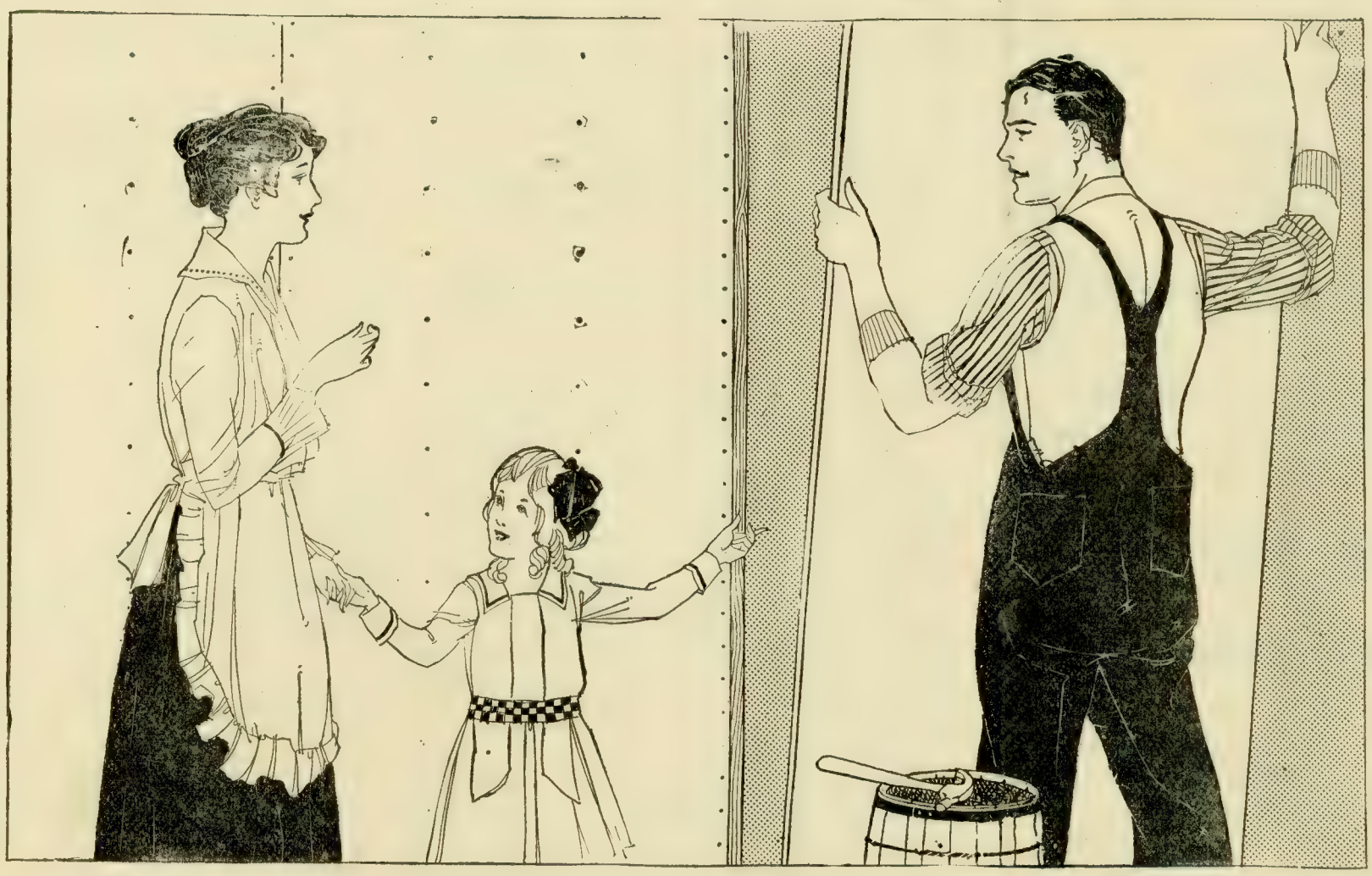
Newsholme takes as a standard that a house is overcrowded when the number of occupants exceeds double the number of rooms in the house. According to this measure the congestion in 4-room apartments was greater than in any other, in some cases in both native and foreign-born groups as many as 11 persons lived in 4 rooms. Room congestion was much more common among the foreign-born than among the native, 6.2% of the former and 1.3% of the latter living in dwellings where the occupants exceed twice the number of rooms.

Owning the home indicates an economic status well above the poverty line, and the infant mortality rate for the babies of both native and foreign-born mothers who owned their homes was significant. For the latter group the infant mortality rate decreased as the rental increased for both native and foreign-born. The foreign-born paid much lower rentals than the native born, an excellent indication that the accommodations they secured were much less desirable. A high infant mortality rate was co-existent with living in houses on the rear of the lot or facing the alley, with overcrowding within the apartment and with low rentals.

These figures are indeed eloquent. What's bad for the babies, is bad for the grown-ups. Workmen living in overcrowded, unhygienic and unsanitary houses cause the manufacturer economic loss through their impaired efficiency. If not overtaken by positive sickness, they become slow, sluggish and stupid. Filthy open privies or cesspools in the rear yards contaminating the air and soil, disseminating poison through the agency of

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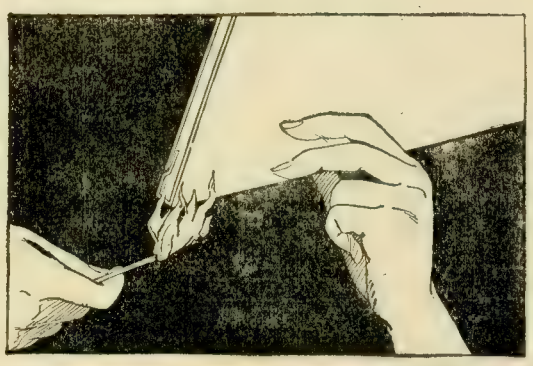
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flies, provide the most startling conditions for the spread of typhoid and malarial fevers. Overcrowding and lack of facilities for personal cleanliness encourage the prevalence of these diseases to the utmost. In the moral aspect, slum conditions develop in which crime and vice go hand-in-hand.

In constantly increasing numbers, good workmen today are refusing to live under these conditions. If one manufacturer will not provide suitable living facilities, they will seek one who will. The day is coming when the manufacturer will have to compete not only in wages but in living accommodations. The large labor turnover due to shifting population, resulting in the so-called "floater," is directly due to inadequate unsanitary housing. In one instance which comes to mind the labor turnover is as high as 400%. What if a manufacturer had an executive turnover of 400%? He would soon get adequate houses, or retire from business.

This refusal of the workmen to permit their families to live in dirty, damp and ill-ventilated houses or flats, exposed to all manner of disease and crime, is already bearing fruit. Model villages are beginning to spring up in industrial centers, as one manufacturer after another is brought to a realization of the absolute necessity of such ventures.

The provision of sanitary homes for workers may be accomplished in various ways:

1—By investment for industrial housing as part of the general plant investment.

2—By combining with other employers of labor to raise the necessary capital.

3—Separate corporations, with separate directors, to conduct real estate and building operations.

The governing factors in any industrial housing project are:

1—The factory location, where in a city, town or rural community.

2—The type and number of workmen to be housed and whether skilled or unskilled.

3—Financing.

Many manufacturers today, owing to restrictive urban legislation, are seeking the suburban and rural communities.

This results in two types of industrial communities, first the suburban within easy access of the shopping and amusement districts of cities and towns; and secondly, the rural located at a distance from these conveniences and under the necessity of providing them. In the suburban developments, one very important factor is that of transportation, which must be speedy, regular and cheap.

A careful study of the classes of workmen to be housed should be made, and provisions made for each class. The number of unattached single men, married couples with and without children, size of families, birth rate, death rate, sickness, infant mortality, wages earned by the workmen, habits, environment are all weighty factors which cannot be ignored in a successful industrial housing operation. They decide the size, type and number of houses.

The question of financing has already been considered.

The difference in cost between permanent and temporary construction is so small, after taking into account the necessary expenditures for water supply, drainage and road work, that it is poor economy to throw away any money upon makeshift expedients. The day of the temporary home is fled. The advent of a new concrete frame and stucco system—an entirely new idea in concrete construction, sounds the knell of the wooden frame house.

Thanks to this invention, concrete homes may now compare most favorably in cost with ordinary wooden houses; two houses may be built as economically as two hundred; a different style of architecture may be employed in each house if desired. Expensive forms, the bugbear of past housing operations, may be entirely eliminated and fire-resisting, permanent homes, needing neither paint nor repairs, erected.

Not one solitary reason for a temporary home exists today.

Cement stucco on metal lath over reinforced concrete frame, produces a wall construction which is not only rigid and permanent, but possesses the insulating qualities so essential in exterior wall work by having dead air space, thereby keeping the building warm in winter and cool in summer.—*General Fireproofing*

SEWAGE DISPOSAL PROBLEM OF A LARGE CITY.

Plans for Solving It in Philadelphia

Probably the largest per cent. of the interested citizen class in the discussion of municipal improvements is comprised of engineers in general, those employed by the city, and property owners whose estates will be enhanced by the operations involved.

The above statements are not made in a derogatory manner, as the reasons for the lack of interest in this question are apparent. Persons spending all their lives in a city where sewage facilities have always been at hand have become so accustomed to the excellent conditions that prevail that they give the matter very little consideration. To really appreciate the interdependence of the prompt removal of the liquid wastes of a community and the health and comfort of the people, however, we need only look back at the conditions existing three quarters of a century ago.

In Great Britain, about 1810, there was a gradual movement from the country to the town. This resulted in very crowded conditions. A large per cent. of the town population lived in cellars, and had no place of deposit for their refuse matter and liquid wastes. The richer classes

**Portland Cement, Sand or Gravel by carload. Consult DAVID FRANCE CO.,
Tasker Street Wharf, Delaware River, Philadelphia.**

were probably no better off in this respect. They had open well cesspools, but these were merely a concentration of the nuisance. As the town grew, the cesspools were covered and served as foundations for dwellings. Even the palaces of the nobility were frequently built over one or more of them. In the towns where cesspools were not available, the highways were used as a place of deposit for the foulest wastes. The gutters were often disgustingly dirty and dangerous. These conditions did not result from the lack of underground drains, as there were numerous drains to carry off the rain water, but as the drains were not designed to allow of cleaning, it was a punishable offense to put anything in them that might clog them.

The terrible Black Plague visited the islands about this time, and so aroused the people to the unsanitary conditions that the above-mentioned penalty was removed, and everything was put into these drains. They were poorly constructed, not water tight, and in consequence they became merely elongated cesspools. They conveyed enough sewage to the streams, however, to cause serious pollution of the same. This forced on the public officials the question of some manner of sewage disposal. The laws resulting were the primary steps in the development of the principles of sewage disposal.

America did not have such crowded conditions, and had numerous streams to carry away the sewage, so the question did not really become pressing until quite recently.

Philadelphia, even at that time, had given due attention to the matter of sewers. Prior to the consolidation of the boroughs and townships in 1854, it had 18 miles of main sewers and 19½ miles of branch sewers. At present, it has about 1300 miles of sewers, which cost approximately thirty-five million dollars.

This is a well-constructed system and conveys the sewage from our homes, offices and factories, but the volume of this sewage has become so great that we are confronted with the very important question, "What shall we do with the sewage?" Heretofore this has been answered by emptying the sewage into the many streams that Philadelphia has been blessed with. This is not a slipshod way, but is a recognized scientific method of sewage disposal. Nature has provided in natural streams everything necessary to effect the ultimate purification of the decomposable constituents of the sewage in an inoffensive manner. This method has its limitations, however. When this purification requires more oxygen than the water can supply, pollution to the point of offensiveness results. Another objection to this method is that the floating matter, consisting of such unthinkable materials as match sticks, tin cans, dead animals, clothing, house furnishings, etc., are not taken care of, and the natural result is unsightly waterways.

The State authorities, realizing these limitations and knowing that the State's water supply comes from the streams, passed an act in 1905, empowering the commission of the State Department to control the discharge of sewage into the waters of the State. So, in April, 1907, when Philadelphia asked for a permit for an extension of sewers, it was granted with the condition that comprehensive plans for the collection and disposal of the sewage of Philadelphia would be submitted prior to 1912.

The city previously had appreciated the need of protection to its water supply, as is evidenced by the fact that in 1883 an intercepting sewer along the east bank of the Schuylkill River had been built from tide water below Fairmount dam to approximately the northern boundary of the city, with a main branch extending north along the Wissahickon Creek.

This not only protected the water supply, which, at that time, came entirely from the Schuylkill River, but kept that part of the river clean and beautiful.

The second intercepting sewer was built along the east bank of Cobb's Creek, from tide water to the county line.

In 1900 the Bureau of Surveys built a testing station where experiments on methods of sewage disposal were to be conducted.

This station is located in Fairmount Park, adjacent to the Spring Garden Pumping Station. Valuable data was obtained on various phases of sewage disposal, such as fine coarse screens, tanks, filters, underdraining, action of germicides and disposal of sludge, etc. This data is published in the 1911 report.

The next work of this nature was the design and construction of the Pennypack Creek Sewage Disposal Works.

Pennypack Creek enters the Delaware River about 2000 feet from the intake of the Torresdale Water Filters, which now supply about three-fifths of Philadelphia with water. The sewage from the three municipal institutions and the district of Holmesburg discharged into the creek, causing serious pollution. This reached the intake by the tidal action of the Delaware River. To prevent this pollution from contaminating the water supply, collectors were built along the creek, and they conveyed the sewage to a pumping station and then to the works for treatment.

The sewage is passed through two Emscher tanks to remove the settleable matter. The liquid from the tanks then passes on to the filters, the flow into the filters being controlled automatically by a constant head operating house. The effluent, or liquid matter, flows through the filters and passes a dosing tank, where hypochloride of calcium is added to it to act as a germicide. It then passes to a final settling basin where sludge, which has been discharged from the tanks, is intercepted and removed. Then it is discharged into the stream as pure, if not purer, than the natural stream water. The plant is efficient and is not objectionable to the eye, and only on rare occasions is it offensive to the sense of smell.

This practically brings us up to the present plan now being designed in detail, with parts of it already under construction.

All phases of the problem have been worked out in sufficient detail to estimate the location of interceptors and the type of works. If enough money was available, it would be possible to complete the entire plan. The money is not available, however, so it has been planned to execute the operations in such a manner that the available funds will be utilized to the best advantage.

It has been recommended to divide the city into three parts: first, the part northeast of a line beginning at the Delaware River at Port Richmond and extending to and along the Wissahickon Creek, to be known as the Northeast Division; second, the watershed of the Schuylkill, southwest of the Wissahickon and northeast of Cobb's Creek, and that part of the Delaware watershed having sewer outlets between Port Richmond and Market Street, to be known as the Southwest Division; third, that part of the city included in the Delaware River watershed between Market Street and the Philadelphia Navy Yard, to be known as the Southeast Division.

The Northeast Division protects the Delaware River within the tidal range of the Torresdale Filters. In 1950, these works will treat sewage from 1,100,000 people, amounting to 208,000,000 gallons per day. The treatment will be practically the same as that at Pennypack, except that it will be on a much larger scale. The sludge will be placed on drying beds and probably buried.

The Southeast Division will only need sufficient ground for a pumping station and screens. The effluent will be discharged into the channel through a submerged outlet. With all other sewage being thoroughly treated, it is assumed that this quantity will not be sufficient to overtax the resources of the Delaware River, and can be disposed of inoffensively by dilution. If the future shows that this treatment is inadequate, tanks will be installed. These works will receive in 1950 sewage from 390,000 people, amounting to 82,000,000 gallons per day.

The Southwest works will be constructed in the Fortieth Ward. The treatment will be practically as in the Northeast works. These works will treat, in 1950, sewage from 1,663,000 persons, amounting to 417,000,000 gallons per day.

The above plans have been subdivided so that the work will proceed in such a way that the maximum good will be accomplished with the minimum expenditure of time and available money.

The first actual construction is the Frankford Creek High Level Collector. The name, High Level, comes from the fact that it will convey the sewage into the works directly by gravity, advantage being taken of the natural elevation of the territory. This will cleanse the Frankford Creek, which is at present in a very polluted condition, and will remove from our water supply one of the greatest sources of pollution. Part of this work is already under contract.

The works, when completed, will treat sewage from more than three million people, amounting to approximately 700,000,000 gallons per day. In order to get a conception of this tremendous volume, imagine a tank as wide as Broad Street and 100 feet high, extending from City Hall to Columbia Avenue, filled with water, and you will realize the amount of sewage that will be treated daily and sent into our streams purer than the water already in them. To be able to do this, a total expenditure of approximately thirty-five million dollars will be needed. The plan will not always be a source of expense. In fact, there are many interesting economic phases of the problem to be considered. For instance, the water supply will be protected; therefore, less should have to be spent in assuring a good water supply. Property values will be increased and much undeveloped land reclaimed, since the natural streams will not be a source of nuisance, but a source of beauty and pleasure. The port will be helped in its development by the removal of the filth from the docks, and we will not be constantly refilling our channel with refuse matter, etc.

The project is no longer a pleasant dream, but is fast becoming a reality. It is one of the most comprehensive problems of its kind in our country today.

You know what propaganda is, don't you? You know, too, how effective a weapon it is, if used properly, don't you? Well, advertising—honest, fair advertising—is the best propaganda we know of. Join the propagandists now! Advertise in the "Builders' Guide."

PEP PARAGRAPHS

A mob is a headless gathering.

Cents and nonsense seldom go together.

You can't drive a mule, but you can lead it.

In order to extend your credit, pay promptly.

A cinch is something which you have already mastered.

Find out what you wanta do, then sail in with both feet.

Enthusiasm is the boy who lubricates the wheels of progress.

It requires nerve, determination and foresight to blaze a trail.

It frequently takes sadness to teach us to appreciate gladness.

Mosquitoes aren't very large or important looking, but they sure let us know they're here.

"Nothing succeeds like success." Nothing fails so completely as a man who starts out believing himself a failure.

Pennies make dollars, but many a poor, misguided dub has failed for no other reason than because he learned to think only in penny denominations.

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As an indication of the tendency toward a better understanding and closer co-operation between engineers and architects, it is of interest to note that D. Knickerbacker Boyd, architect and structural standardist, a member of the firm of Boyd, Abel & Gugert, architects, and a former secretary and vice-president of the American Institute of Architects, has recently been elected as a member for three years of the Board of Directors of the Engineers' Club of Philadelphia, taking office July 1st.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

Many a man would do a better job if he didn't know about putty.—**Ex.**

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

Repitition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

"Camouflage" doesn't pay in advertising. Don't call your cannon a bit of landscape. Be honest and gain the confidence of the public.

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.

If you want Trap Rock or Slag, any size or grit, we are headquarters for same. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

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Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

ARTESIAN WELL PUMPS.
Nicholas, A. J., & Co.....Bulletin Bldg., Phila.

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Blue Print Shop.....1520 Sansom St., Phila.
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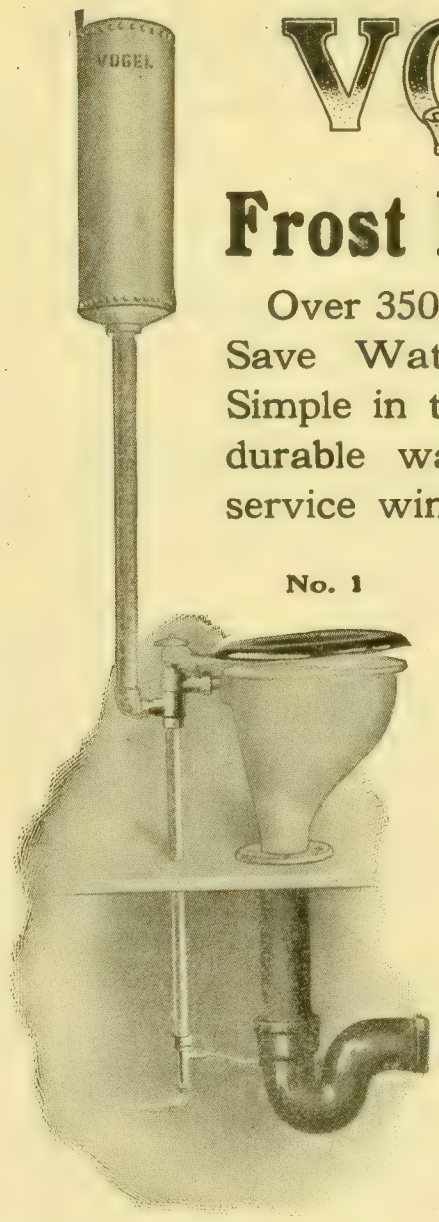
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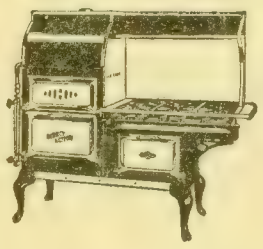
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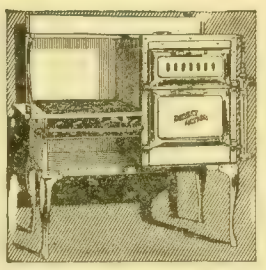


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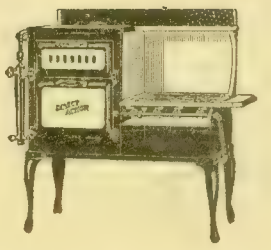
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXV, No. 28
July 14, 1920

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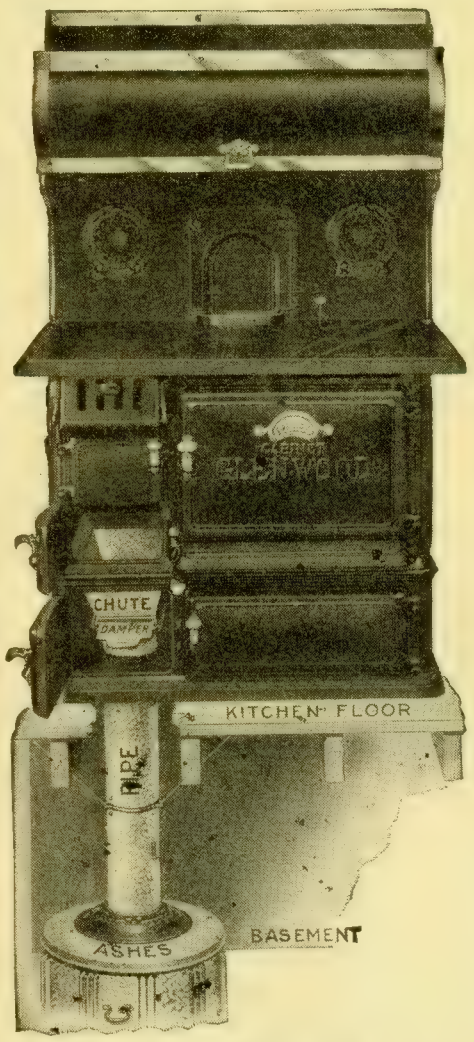
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Franklin National Bank

Chestnut Street West of Broad

Philadelphia, June 30, 1920

RESOURCES

Loans and Discounts	$53,255,362.06
Liability under Letters of Credit and Acceptances	405,890.79
Interest Earned Uncollected	133,587.66
Due from Banks	14,844,691.90
Cash and Reserve	6,510,547.05
Exchanges for Clearing House	3,287,654.33
	$78,437,733.79

LIABILITIES

Capital	$1,000,000.00
Surplus	4,000,000.00
Undivided Profits	1,104,694.45
Reserved for Taxes	184,309.29
Discount and Interest Unearned	258,771.96
Letters of Credit and Acceptances	405,890.79
Bil's Payable and Rediscounts at Federal Reserve Bank Secured by Government Obligations	8,218,000.00
Deposits	63,266,067.30
	$78,437,733.79

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STATEMENT OF JUNE 30, 1920

RESOURCES

Loans and Investments		$18,197,345.61
Due from Banks		2,506,431.77
Exchanges for the Clearing House		506,073.98
Customers' Liability on Account of Acceptances Executed by this Bank		306,530.34
Cash and Reserve		1,176,358.89
		$22,692,740.59

LIABILITIES

Capital		$500,000.00
Surplus and Net Profits	$716,255.93	
Unearned Discount	109,950.59	
		826,206.52
Amount Reserved for Taxes Accrued		60,685.63
Amount Reserved for Interest Accrued		12,236.85
Circulation		453,997.50
Acceptances Executed for Customers		306,530.34
Bills Payable with Federal Reserve Bank Secured by U. S. Liberty Bonds and Certificates of Indebtedness		2,326,927.00
Bills Payable with Federal Reserve Bank		3,050,000.00
Other Bills Payable		375,500.00
U. S. Government Securities Borrowed without Furnishing Collateral Security for Same		200,000.00
War Loan Deposit	$112,950.00	
Deposits	14,467,706.75	
		14,580,656.75
		$22,692,740.59

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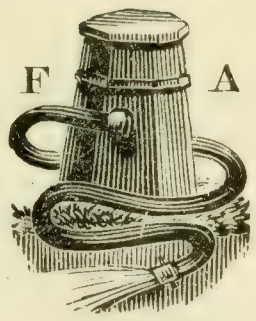
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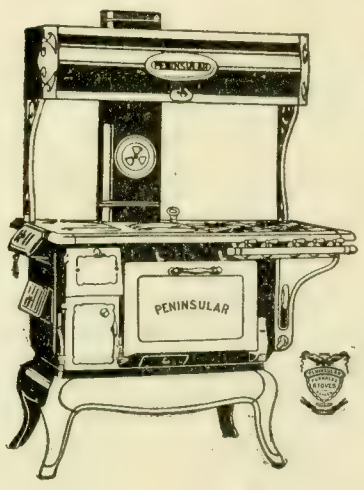
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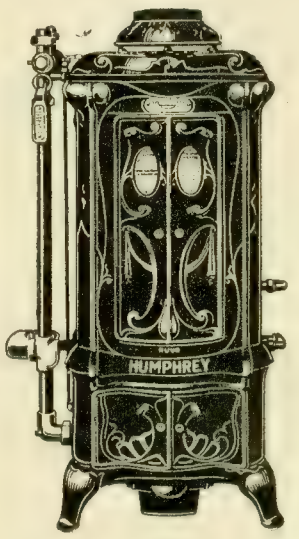
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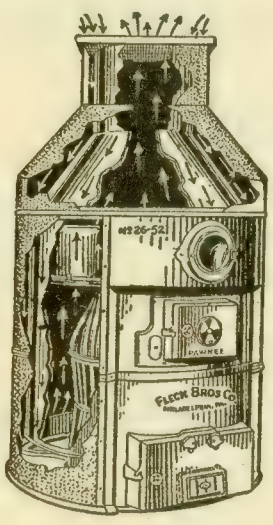
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 28

PHILADELPHIA
July 14, 1920

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY
BY

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As The Editor Sees It

THE semi-annual report of building operations in Philadelphia for the first six months of this year, published in full on another page of thisissue, emphasizes again the great and increasing shortage in houses prevailing throughout the country. The six months period ending June 30, 1920, shows a decrease in total new buildings of 1589 over the first six months of 1919. In total operations consisting of new buildings, additions, alterations and repairs, a decrease of 473. Total new buildings in first six months of 1919 was $17,305,960 and in 1920 was $25,839,490, an increase in cost however of $8,538,530. In 1919 the first six months of total operations consisting of new buildings, additions, alterations and repairs was $21,567,565 compared to $38,139,120 for the first six months of 1920 manifesting an increase in cost of $16,571,555.

The greatest decrease in operations was in two-story dwellings, a drop of 1568 in the six months period and a difference in amount of $4,355,150. Likewise the three story dwellings showed a decrease in operations of 91 and a difference in cost, but an increase, of $640,035.

The notable increases are in additions made to old properties and alterations and repairs. Additions in the first six months of 1920 show an increase over the corresponding period of 1919 of 230 costing $6,162,540 more than the same kind of work in 1919. The alterations and repairs in 1920 for the half year just ended were 886 greater than in 1919 at an increased cost of $1,875,485.

The report makes clear that new buildings were greater every month for the first four months of 1920 than in 1919, but very marked declines occur in May and June. Material increases continued every month in 1920 in additions, alterations and repairs.

These alarming figures clearly demonstrate that the tendency is to increase the comfort and capacity of old buildings and to delay new operation.

Factories and warehouses in 1920 up to July 1 were greatly higher than in 1919. 48 factories costing $4,027,600 in 1920 as against 27 costing $1,004,500 in 1919. Warehouses, the number is about the same, but there is an enormous increase in total expenditure, in 1919, 16 were built, costing $398,000, and in 1920, 15 costing $4,182,000.

These conditions are not confined to Philadelphia but exist throughout the country. The situation is becoming more serious daily and says the *National Builder*:

The promise of an immense building activity that marked the beginning of the year faded rapidly in May. Building has slumped heavily, but the need for buildings of all kinds is accumulating. The potential wealth is here awaiting the adjustment of the machinery to give it movement into the right channels. In efforts toward adjustment hope rests in the activities of the National Federation of Construction Industries in conference with the Senate Special Committee on Reconstruction and Production.

While housing activity has largely come to a halt, it is obvious that the pressure of high cost while preventing building is also stirring investigation of every description of material and every character of construction and methods that holds a promise of sound economical building and financing.

The National Federation of Construction Industries in this crisis asks all building associations to furnish the Hon. Wm. M. Calder, chairman of the Senate Special Committee of Reconstruction and Production, Senate Office Building, Washington, D. C., with the following information:

1. The name and address of your President.
2. The names, addresses and committees of your Committee Chairman.
3. The names and addresses of members of a special committee appointed by your association to deal with the Senate Special Committee.
4. Information as to the shortage of housing and industrial construction.
5. Whether the shortage is increasing or decreasing.
6. The effect of the shortage on industry and public welfare.
7. The remedial measures which have

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CHARLES H. ROBBINS, JR.
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BLUE PRINTS

been taken affecting the various localities or industries.

8. Your views as to the merits of such measures.

9. Your opinion as to the necessity of Federal action in the present emergency.

The Big Four—Transportation, Coal, Taxes, and High Wages are running around the circle, and prices are increasing.

Speaking in a similar vein, the *American Contractor,* in answering the question, How many Buildings for 1920? says:

Looking to demand first, we see it is very great—that is, there is a shortage of housing, of roads, etc., which will require much material. But demand to link up with supply must be effective. If a road is needed but the funds are lacking to build it, such a road is not going to influence material prices. Houses may be needed, but if mortgage money is diverted from housing to luxuries or to some other source, the needed houses are not going to influence directly the price of brick, lime or lumber until such time as they become working projects. They may influence the price indirectly, but only so much as they are thought of as becoming active demand in the near future. Therefore, as far as demand is considered, the biggest thought to keep in mind is, "How much activity will take place during the remainder of 1920, providing all materials necessary can be brought to the job?" The determining factors, outside of the price of materials which will make up demand, are (1) money available for building; (2) labor supply; (3) physical posibility of getting jobs done with present equipment and organization for so doing.

Very briefly, the first depends upon the fundamental principle of practicality of investment in buildings built at what are thought by many to be inflated present values. Without going into this, it is safe to say that with raised freight rates imminent, and with no sudden reduction in any cost imminent, there is going to be no avalanche of money made available to building this year. The second (labor supply) will be slightly unfavorably influenced by any action of the railroad board which makes for better service. Some men from the railroads temporarily in the construction industry will be taken back on the roads. Some men thrown out of automobile manufacturing plants because they could not get cars, who are now in construction work, will be taken back. Besides these factors, the fact of any material boost for the railroad men will result in further unrest in the building trades. Still another possible factor will be the using of many unskilled laborers by the railroads to build track improvements. While there are other factors which enter into the supply of labor, the foregoing are the main ones which can have appreciable effect during the remainder of 1920.

The physical possibility of getting jobs done, needs very little comment. There are a certain number of contracters in each city who are organized to take care of work. Lately there has been, as a direct result of the tied-up railroad conditions, some cancellation of buying orders for equipment on the part of these contractors. Supposing for the moment that an unlimited quantity of labor might be had, still an unlimited quantity of work could not be done because of lack of organization to carry on the work. It takes time and effort to prepare for big activity.

Taking the above thoughts into consideration, the sane deduction is that effective demand for building materials is going to be limited during the remainder of 1920.

Looking to supply, we see about the same labor conditions which we see by looking to demand. All labor going into any finished product is going in at high cost. The stocks on hand which may be released upon the facile movement of freight were all manufactured at high cost. The manufacturer is going to be loath to cut costs. The softening of the market during the past month, more noticeable in lumber, has been significant because it shows the catering to the law of supply and demand. The cut was made because effective demand could not meet the high prices.

There is no widespread expectation of any further peak being added to prices, not even in the face of increased freight rates. And going back to our evidence, which points to a limited effective demand, it seems reasonable that even in the face of high manufacturing costs, the manufacturer will have to manage his production so effectively that he can sell at least within the compass of present prices.

The period from the armistice to the present has been a period marked by few business failures. This means that it has been a period wherein profits have come sufficiently easy to keep the marginal producer on his feet. By the same token, it means that the more efficient producers have had a rather wide latitude of profit. Following such a period invariably comes the swing of the business cycle to the period of a large number of business failures. Along with the coming back into full function of the railroads, whenever that may be, may come the time when supply and demand linked together will force prices where only the efficient producer can make a profit.

IS THE COST PLUS CONTRACT PREFERABLE TO THE LUMP SUM CONTRACT FOR BUILDING WORK

By W. J. Austin Vice President and General Manager
The Austin Company, Cleveland, Ohio.

(The following are extracts taken from the speech of Mr. W. J. Austin, delivered before the Builders' Exchange of Cleveland, in connection with a discussion of the relative merits of the cost plus and the lump sum forms of building contracts.—*Ed.*)

IN considering the subject under discussion it would seem that a definition of the two forms of contract should be given. A cost plus contract is one where the total cost, whatever it be, is paid by the owner plus a profit to the builder; a lump sum contract is one where the builder pays the total cost, and may receive a profit or take a loss. In the cost plus the owner assumes the hazards. In the lump sum, the contractor assumes the hazards. How then determine which form is right—or if both are applicable, which one is the better?

A lump sum building contract is based upon an estimate which includes items of cost which are variable and not within the builder's control. The major items are as follows:

Drawing and specifications—the practical responsibility of accurately showing or describing all of the materials and all of the details and all of the qualities and methods of accomplishing the desired results.

The conditions of soil and sub-surface.

The weather.

Market conditions, whether prices advance or decline.

Labor conditions and costs, with possibilities of strikes, lockouts, disasters.

(Continued on Page 653.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Service Station and Garage, 212-222 North Juniper street, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, George Shields, care of Lyric Garage, 231 North Juniper street, Philadelphia. Brick, steel, slow burning construction, 2 stories, 33x120 feet, 60x66 feet, slag roof, cement floors, elevators, fire doors, hollow metal skylights, stone foundations (heating, plumbing, electric work and elevator reserved). Architect taking bids from Kober Const. Co., 34 South Seventeenth street, and D. Henwood, 717 South Sixty-third street, due July 16th.

Bank Building, Thompson, Ash and Kirkbride streets, Bridesburg, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Bridesburg Branch of the Oxford Bank of Frankford, care of Oxford Bank, Overington street and Frankford avenue, Frankford, Philadelphia. Brick and terra cotta, 1 story and basement, 17x40x48 feet, slag roof, tile and composition floors, stone foundations, steam heat, electric lighting, tile and marble work. Architects taking bids due July 20th. Wills-Ludwick Co., 1708 Sansom street; H. E. Baton, 1713 Sansom street; H. H. Burrell, 206 South Quince street; William R. Dougherty, 1610 Sansom street; Pierce-Henon, Inc., Bulletin Building; Rust Eng. Co., Pennsylvania Building; George W. Corssley, 2264 Bridge street, Frankford, and Edw. T. Bender, 6014 Torresdale avenue, Wissinoming, Philadelphia, are figuring.

Stores (8) **(alts.),** Fifth and Somerset streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, A. Weiss, 1215 Market street, Philadelphia. Flush bulks, electric lighting, tile and marble work. Owner is taking bids.

Stores (2), 628-30 South street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, M. Cylinder, 5734 Chestnut street, Philadelphia. Brick, 2 stories, 30x90 feet, slag roof, steam heating, electric lighting, tile work, flush metal bulks. Owner is taking sub-bids.

Garage, 707-11 Tasker street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, A. Pestooe, 1625 South Eighth street, Philadelphia. Brick, 2 stories, 52x121 feet, slag roof, cement floor, steam heat, electric light, rolled steel sash. Architect taking bids due soon as possible. Fidelity Const. Co., Bulletin Building; M. Kirschner, 4930 Brown street; M. Yellin, 712 North Franklin street; J. Ostroff, 310 Porter street, and Bldr. Walters, care of architect, are figuring.

Manufacturing Building, Twenty-second and Hunting Park avenue. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Reyburn Mfg. Co., Twenty-third and Allegheny avenue, Philadelphia. Concrete, steel and brick. Plans in progress. Too early for details.

Track Construction, Cont. No. 572, Frankford Elevated, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, 1211 Chestnut street. 7,286 lineal feet of single track and 2 crossovers. Lowest bidders: Snare & Triest, Pennsylvania Building, Philadelphia.

Bungalow, Germantown, Philadelphia, $15,000. Architect, Karl F. Otto, Foulkrod and Oakland streets, Frankford, Philadelphia. Owner, Frank E. Smith, care of architect. Stone and brick, 1½ stories, 38x50 feet, stucco, slate roof, hardwood floors, tile work, hot water heating, electric lighting. Architect is ready for sub-bids.

Residence (alts.), for Bank Building, Broad and Airdrie streets. Architect, Philipp Merz, Pennsylvania Building, Philadelphia. Owners, National Bank of North Philadelphia, on premises. Interior alterations, lighting fixtures, tile and marble work, bank fixtures, metal window guards, new vault. Plans in progress.

Residence (alts.), 1340 Spruce street, Philadelphia. Architect, A. D. Hill, 1340 Spruce street. Owner, Joseph A. Steinmetz, on premises. Brick, miscellaneous repairs, tin roof, cement floors. Owner taking bids. A. L. Fretz & Son, Heed Building, are figuring.

Bank Building, Ridge avenue and Diamond street, Philadelphia. Architects, Kaplan & Greenstein, 717 Walnut street, Philadelphia. Owners, Citizens' Bank, 22 South Third street, Philadelphia. Brick and terra cotta, 1 story, 54x40 feet, slag roof, steam heating, electric lighting, tile and marble work. Owners taking bids due July 16th. Standard Const. Co., 1713 Sansom street, is figuring.

Grading and Drainage for (2) Football Fields, City Line avenue, Overbrook, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Episcopal Academy, 1324 Locust street, Philadelphia. Engineers, Albright & Mebus, Land Title Building, Philadelphia. Architects taking bids. Thomas P. Lee, 5629 Cherry street; Frank Mark, Twenty-first and Cambria streets; James Porter, 1429 Federal street; A. C. Shand, Jr., Land Title Building; Thomas Reilly, 1616 Thompson street, Philadelphia, and Morris Wolf, Weldon, Pa., revised list of bidders.

Residence, Merion, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, James N. Mitchell, Forty-sixth and Market streets, Philadelphia. Stone and hollow tile, 2½ stories, 23x88 feet, slate roof, hardwood floors, stone foundations, hot water heat, electric lighting, tile work. Plans completed. Owner is ready for sub-bids.

Residence (alts. and add.), 2004 Delancey street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Mrs. Arthur H. Gerhard, on premises. Brick work, stone work, plastering, steel work, tin roof, hollow tile, safety treads, roof ventilators, hollow metal skylights, iron work (plumbing, heating and electric work reserved), tile and marble work. Architects taking bids due July 16th. Jacob Myers & Sons Co., Witherspoon Building; William R. Dougherty, 1610 Sansom street; F. E. Wallace, 1220 Chancellor street, and Charles Gilpin, Harrison Building, are figuring.

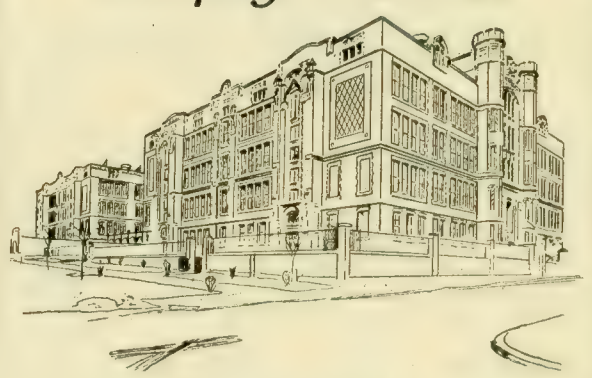
Buildings (alts.), City avenue and Berwick road, Overbrook, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Episcopal Academy, 1324 Locust street, Philadelphia. General remodeling, heating, electric work, plumbing, painting, plastering. Plans in progress.

Paving, Cont. No. 119, Frankford Elevated, Philadelphia. Owner, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Granite block, gravel base and wood block on concrete base. Lowest bidder: John Meehan, 915 Dauphin street, $11,040.

Store and Storage Building, 119 South street, Philadelphia, $19,000. Architect, private plans. Owners, Pasquale Ferrison & Co., 125 Bainbridge street, Philadelphia. Brick, 2 stories, 19½x112 feet, slag roof, steam heating, electric lighting, pine floors, cement work. Owners will build.

Factory, Clearfield and "A" streets, Philadelphia, $270,020. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, H. C. Aberles Co., on premises. Brick and reinforced concrete, 5 stories and basement, 80x200 feet and 60x60 feet, slag roof, cement floors, elevators, waterproofing, stone foundations, steam heat, electric lighting, rolled steel sash and skylights, fire doors, iron

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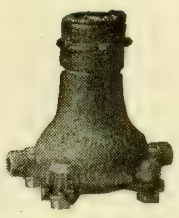
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work Architects will build.

Store and Mfg. Bldg. (alts.), 809 Arch street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, M. Kohn & Sons, on premises. New front, carpentry, mill work, cement work, heating repairs, electric lighting, composition floors. Architect taking bids due July 15th. McNeill-Valentine, Inc., 841 North Broad street; F. A. Havens & Co., 845 North Nineteenth street; Smith-Hardican Co., 1606 Cherry street; Kober Const. Co., 34 South Seventeenth street, and W. O. Springer, 2004 Naudain street, are figuring.

Store (alts.), 1628 Columbia avenue, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, George D. McClarin, on premises. General remodeling. Will be ready for bids in a few days.

Residence and Garage, Lincoln Drive, Germantown, $25,000. Architect, Karl F. Otto, Foulkrod and Oakland streets, Philadelphia. Owner, Mario D'Uurso, 809 Christian street, Philadelphia. Hollow tile and stucco, 2½ stories, 53x28 feet, and 1 story, 30x20 feet, tile roof, stone foundations, hardwood floors, tile work, hot water heating, electric lighting, hardwood floors. Architect is ready for sub-bids.

Dye House (alts.), Emerald and York streets, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Firth & Foster, on premises. General alterations and additions. Architects will sublet all contracts.

Custom House (alts.), Chestnut street below Fifth street, Philadelphia. Architect, private plans. Owner, Custom House, care of Custodian Officer, on premises. Steel work, metal covered doors, hardware, wiring. Lowest bidder: Lam Building Co., 1001 Wood street, Philadelphia, $1,375.

Heating and Laundry Building, 8815 Germantown avenue, Chestnut Hill. Architects, Willing & Sims, 1627 Sansom street, Philadelphia. Owner, Chestnut Hill Hospital, on premises. Brick and reinforced concrete, 2 stories, 28x73 feet, slag roof, cement and asphalt floors, hollow tile, stone foundations, rolled steel sash, kalamein doors, iron stairs and work, waterproofing. Architects have received bids.

Stable, Chestnut Hill, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, George D. Widener, Land Title Building, Philadelphia. Stone and concrete, 1½ stories, 111x37 feet, shingle roof, iron work. Architects have received bids.

Residence, North side of Sixty-ninth avenue, West of Tenth street, $15,000. Architect, private plans. Owner, Gilbert S. Smith, Sixty-ninth avenue and Tenth street, Philadelphia. Stone, 2 stories, 34½x49 feet, asbestos shingle roof, hot water heating (electric lighting reserved), oak floors, tile work. Owner will build.

Residence (alts. and add.), 4049 Girard avenue, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Miss Marcella Zelalia, 4012 Girard avenue, Philadelphia. Stone and brick work, 1 story front add. 22½x18 feet, rear add., 1 story, 9x16 feet, slag roof, carpentry, hot water heat, electric light, tile and marble work, metal lath, plumbing, metal ceilings, dampproofing, iron work, cement work. Architect taking bids due as soon as possible. (Hardwood and pine floors.) Graham & Wells, 3649 Filbert street; S. Yellin, 3125 Montgomery avenue; J. Gorchov, 4116 Girard avenue; D. Henwood, 717 South Sixty-third street, and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Garage, Vine street, East of Sixty-third street, Philadelphia, $8,000. Owner, William D. Wilson, 127 South Fifty-seventh street, Philadelphia. Brick, 1 story, 75x45 feet, slag roof, steam heat, electric lighting, cement floors. Owner will build.

Studio and Dwelling (add.), 1602-04 Summer street, Philadelphia, $5,000. Architect, H. L. During, Bailey Building, Philadelphia. Owner, Nicolas D'Ascenzo, 1608 Ludlow street, Philadelphia. Brick, 2 stories, 15x7 feet, fire tower, slag roof. Owner will build.

Storage Building, Northeast Corner Eighth and Locust streets, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, William Goldstein, 1001 Filbert street, Philadelphia. Brick, 1 story, slag roof, maple and composition floors. Revised plans about completed.

Factory, rear of 7040 Woodland avenue, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, William Bader, on premises. **Brick, 2 stories,** 15x45 feet, wing 12x22 feet, slag roof, pine floors, stone foundations, electric lighting. Plans in progress.

Connecting Bridge over Clearfield street, Philadelphia. Architects, William Steele & Sons Co., 1600 Parkway, Philadelphia. Owner, Franklin Process Co., Hope and Clearfield streets, Philadelphia. Steel and concrete. Plans in progress.

Store (int. alts.), 912 Chestnut street, Philadelphia. Architect, John C. Brugger, 505 Chestnut street, Philadelphia. Owner, Library Bureau, on premises. Interior alterations, refinishing floors, electric work, wood paneling ceilings, painting, steel or wood columns in basement. Architect has received bids.

Country Club Buildings, Roxborough, Philadelphia. Architect, J. S. Fuller, 1537 Chestnut street; field oce, 6937 Ridge avenue, Philadelphia. Owners, Green Valley Country Club, Roxborough, Pa. Brick, hollow tile and frame. Club House, Locker Rooms and Caddy House. Two stories, 60x80 feet, and 2 stories,



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30x60 feet, steam heating, electric lighting, tile and marble work, hardwood, maple, canvas and composition floors. Plans in progress.

Machine Shop Extension, Fifty-first and Gray's avenue, Philadelphia. Architect, private plans. Owners, Taylor Wharton Iron & Steel Co., Twenty-fifth and Washington avenue. Brick, stucco and steel, 1 story, 90x100 feet, gypsum tile roof, cement floors, metal lath, waterproofing, rolled steel sash, steam heating. Owners taking bids, due July 16th. Hughes-Foulkrod Co., Commonwealth Building; John N. Gill & Co., Otis Building, and A. R. Raff Cont. Co., 1635 Thompson street, are figuring.

Church, Twenty-fourth and Wolf streets, Philadelphia. Architect, R. A. Schumann, 932 Lamberton street, Trenton, N. J. Owners, Holy Spirit Greek Catholic Church, care of Rev. Eugene Volkay, 1931 W. Passyunk avenue, Philadelphia. Brick. Plans in progress. Too early for details.

Bakery, Fifty-second and Florence avenue, Philadelphia, $500,000. Architect, C. H. Comstock, 110 West Fortieth street, New York City. Owners, Freihofer Baking Co., care of William Freihofer, president, Twentieth and Indiana avenue, Philadelphia. Brick, stone, steel and concrete. Plans in progress.

Manufacturing Buildings, Rising Sun and Adams street, Philadelphia, $225,000. Engineers, Wm. Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Electric Storage Battery Co., on premises. Building No. 8, Assembling and Charging Building. Brick, 2 stories, 85x250 feet. Building No. 9, Assembling and Charging Building, 1 story, 140x197 feet, iron on iron. Building No. 10-A, Storage and Shipping Building, iron on iron, 1 story, 38x181 feet. Building No. 3, Pig Lead Building, steel frame and iron, 1 and 2 stories, 42½ x108 feet, 42½x42 feet, and 42½x50 feet. Building No. 4, Casting Building, steel, 2 stories, 85x250 feet. Building No. 5, Pasting Building, 3 stories, concrete and steel, 30x 125 feet. Building No. 5-A, Pasting Building, iron on iron, 1 story, 100x116 feet. Carey built-up roof, cement and asphalt floors, stone foundations, steam heat, electric lighting, rolle dsteel sash and skylights, iron work, roof ventilators. Engineers will build.

Tank Tower, Cambria and Ormes streets, Philadelphia. Architect, Amos W. Barnes, 1507 Arch street, Philadelphia. Owners, Geo. S. Cox & Bro., Inc., on premises. Concrete foundations, steel tower, 100 feet high, 50,000 gallon tank. Architect is sub-letting contracts.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Administration Building (alts.), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, United States Government, Frankford Arsenal, care of Major Lumsden, Philadelphia. Metal lath, plastering, painting, hardware, carpentry, mill work. Con-

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tract awarded to W. W. Anstine & Co., 1218 Filbert street.

Store and Dwelling (add.) and Garage, 1010-12 East Berks street, $4,500. Architect, private plans. Owner, Joseph Franzon, 635 Richmond street, Philadelphia. Brick, 1 story, irregular, slag roof, garage, 1 story, brick, 33x24½x30½ feet, slag roof, cement floor, electric lighting. Contract awarded to O. R. Fisher, 1848 North Thirteenth street, Philadelphia.

Residence, Gates street, East of Matthias street, Philadelphia, $10,000. Architect, private plans. Owner, George Cooper, 466½ Conarroe street, Manayunk, Philadelphia. Brick, 2 stories, hot water heating, electric lighting, hardwood floors, tile work. Contract awarded to G. H. Yarnall, 8722 Ridge avenue, Philadelphia.

Shop, 1316 Flora street, Philadelphia, $5,000. Architect, private plans. Owner, A. MacBride & Co., 1341 West Girard avenue, Philadelphia. Brick, 2 stories, 18x50 feet, slag roof, electric lighting, cement work. Contract awarded to M. A. Greene, 1607 North Thirteenth street, Philadelphia.

Store and Dwelling (alts.), Northeast Corner Third and Girard avenue, $10,000. Architect, private plans. Owner, George Degelman, 236 West Girard avenue, Philadelphia. General alterations, electric lighting, carpentry, mill work, stone work, hot water heating. Contract awarded to John Maurer & Co., 1542 North Lawrence street, Philadelphia.

Garage, Sixty-ninth and Lawton avenue, Oak Lane, Philadelphia, $7,000. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, C. H. Jacobs, on premises. Brick, 2 stories, 51x28 feet, slate roof, hot air heating, metal lath, gasoline storage system, cement floors (plumbing reserved). Contract awarded to William J. Gruhler Co., 219 High street, Germantown.

Building (alts. and add.), 223 North Twenty-first street, Philadelphia, $11,500. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Municipal Court, on premises. Brick and steel, 2 stories, 24x32 feet, tin roof, pine floors, stone foundations, iron work (heating, electric work reserved). Contract awarded to Mitchell Bros., 2125 Race street, Philadelphia.

Offices (alt. and add.), 1827 Arch street, Philadelphia, $5,000. Architect, private plans. Owners, Cosmopolitan Industrial Insurance Co., Twentieth and Spring Garden streets. General alterations and additions. Contract awarded to H. E. Hale, 1636 Ludlow street, Philadelphia.

Dwelling, Tabor street, South of Cottman street, Philadelphia, $4,500. Architect, private plans. Owner, Sydney Fisk, E and Hilton streets, Philadelphia. Frame, 1 story, 25x41 feet, hot water heating, electric lighting, pine floors. Contract awarded to Schoppe & Shutt, Veree Road, Philadelphia.

Store (add.), 1212 North Fifty-second street, Philadelphia, $9,800. Architect, private plans. Owners, Jacobs Bros., on premises. Brick, 3 stories, 16x32 feet, slag roof, electric lighting. Contract awarded to J. P. Collins, 205 South Fifty-eighth street, Philadelphia.

Dwelling, Shelbourne street, South of St. Vincent street, $5,000. Architect, private plans. Owner, Frank Giandominia, 1403 Etting street, Philadelphia. Brick, 2 stories, 20x32 feet, slag roof, hot water heating, electric lighting, hardwood floors. Contract awarded to M. Stevens, 916 St. Vincent street, Philadelphia.

Residence, 4940 Lancaster avenue, Philadelphia, $3,500. Architect, private plans. Owners, Melchiorri Bros., 4860 Lancaster avenue, Philadelphia. Brick, 2 stories, 16x30 feet, 14x30 feet, slag roof. Contract awarded

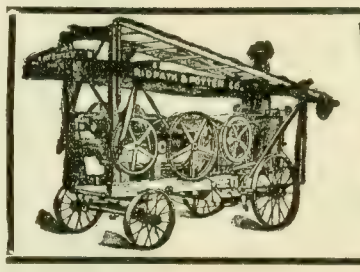


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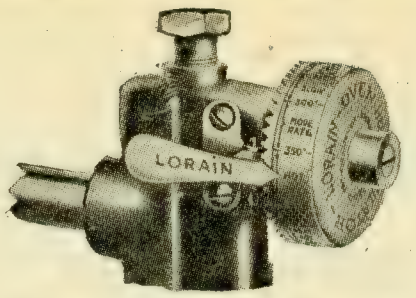
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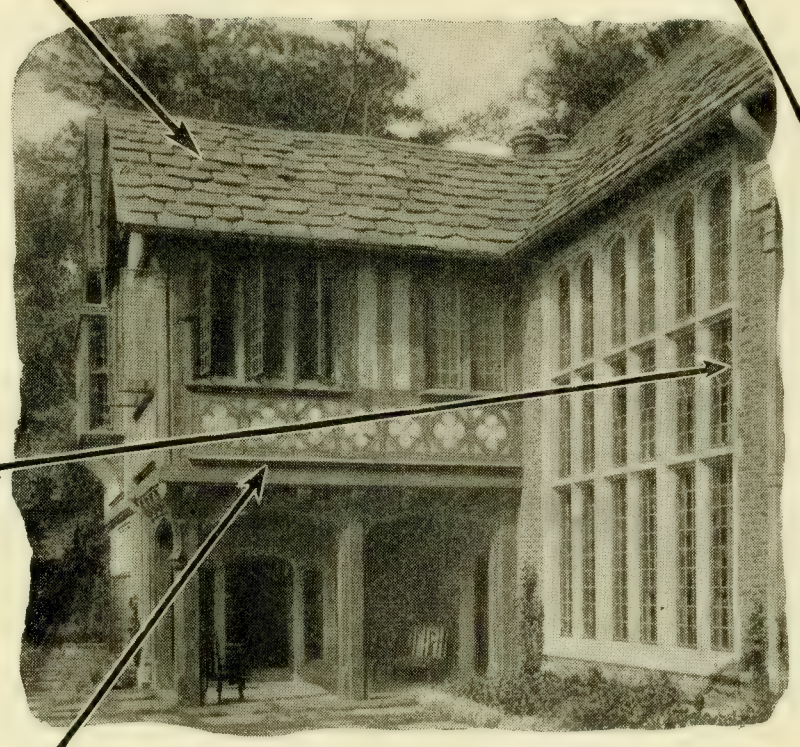
Grading, Planting, R

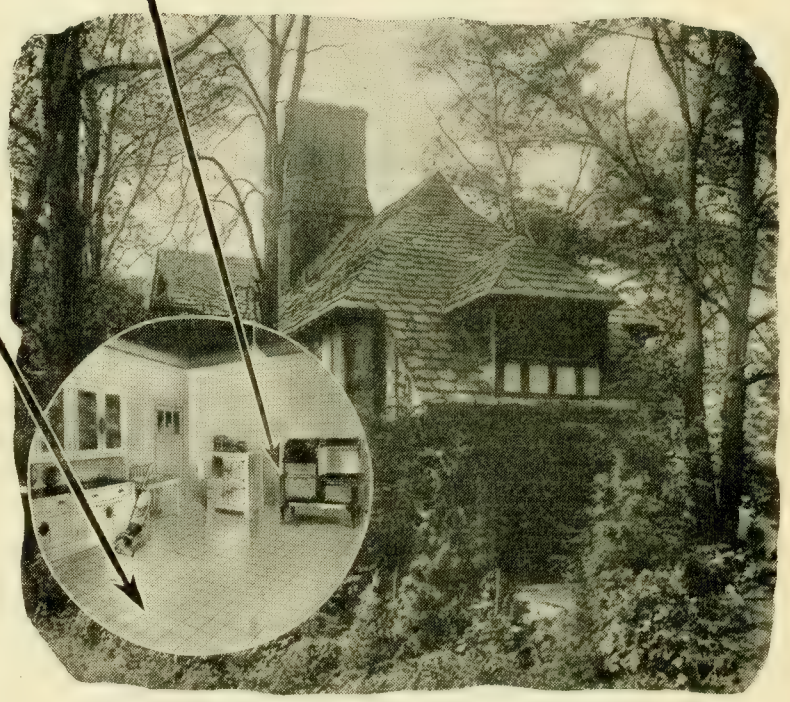
Rock Gardens, Pools,

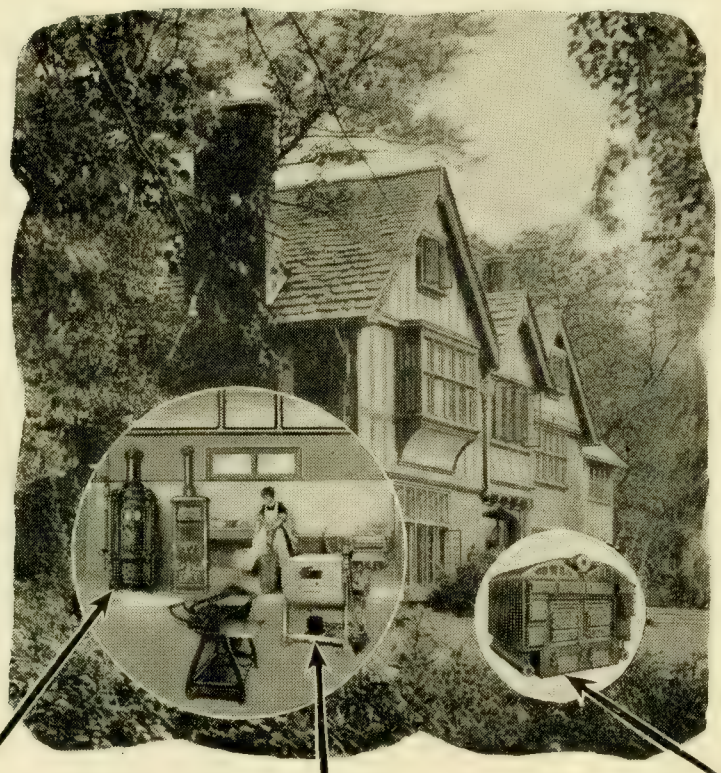
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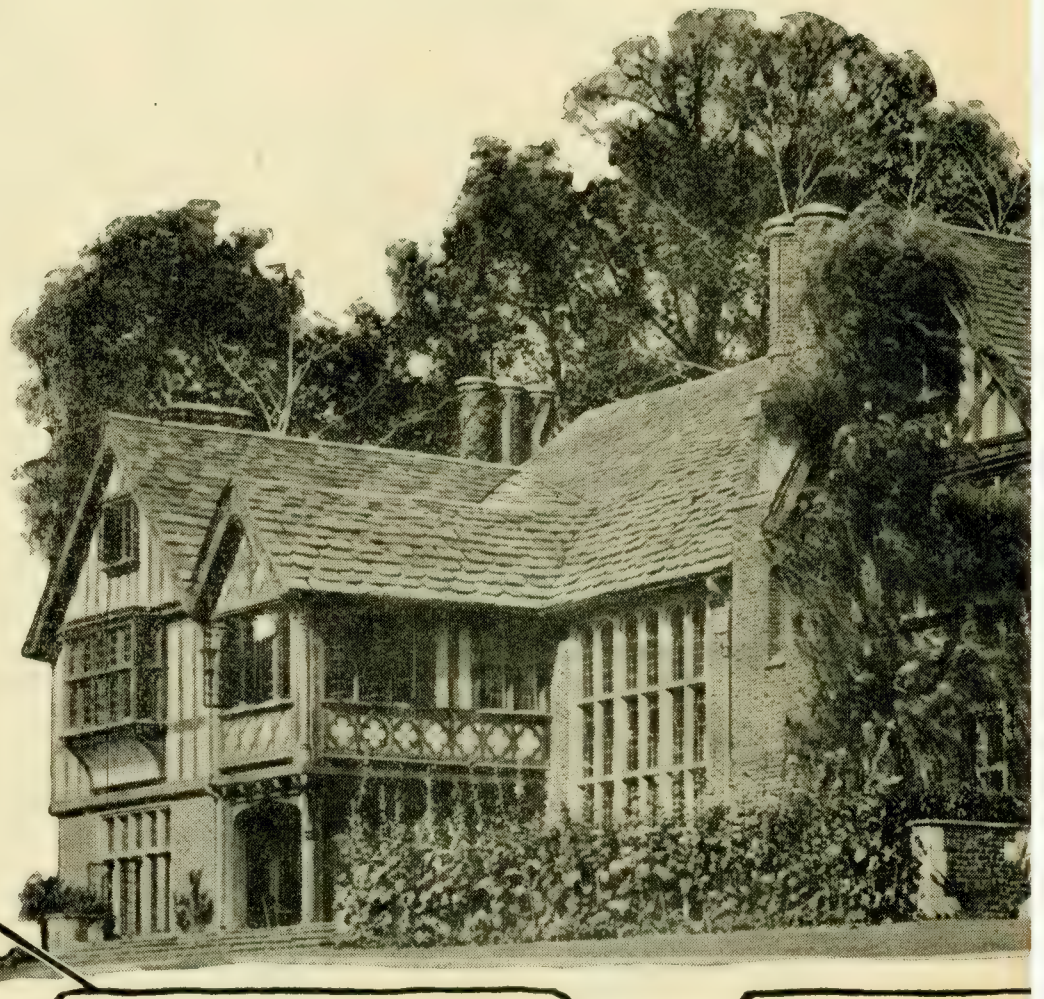
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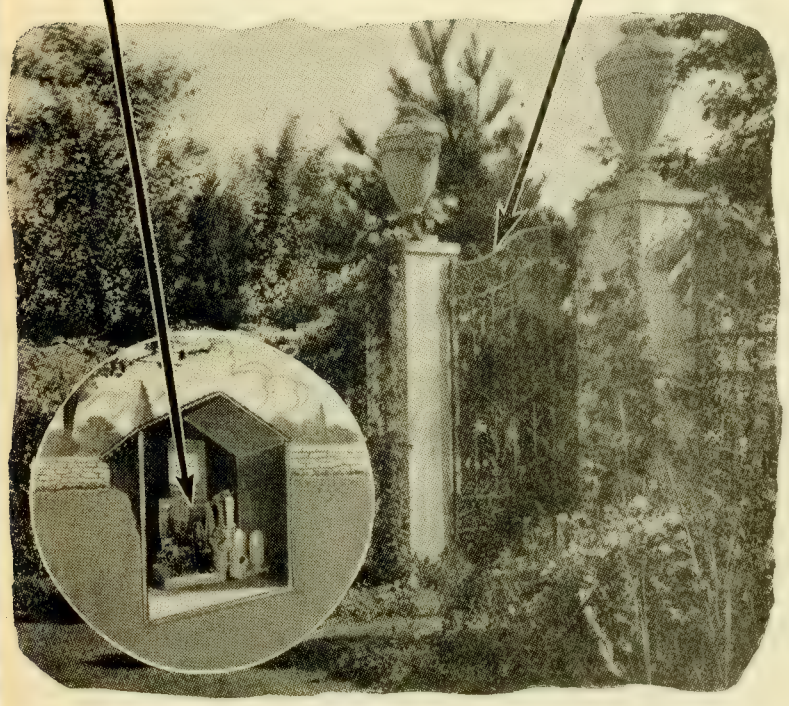
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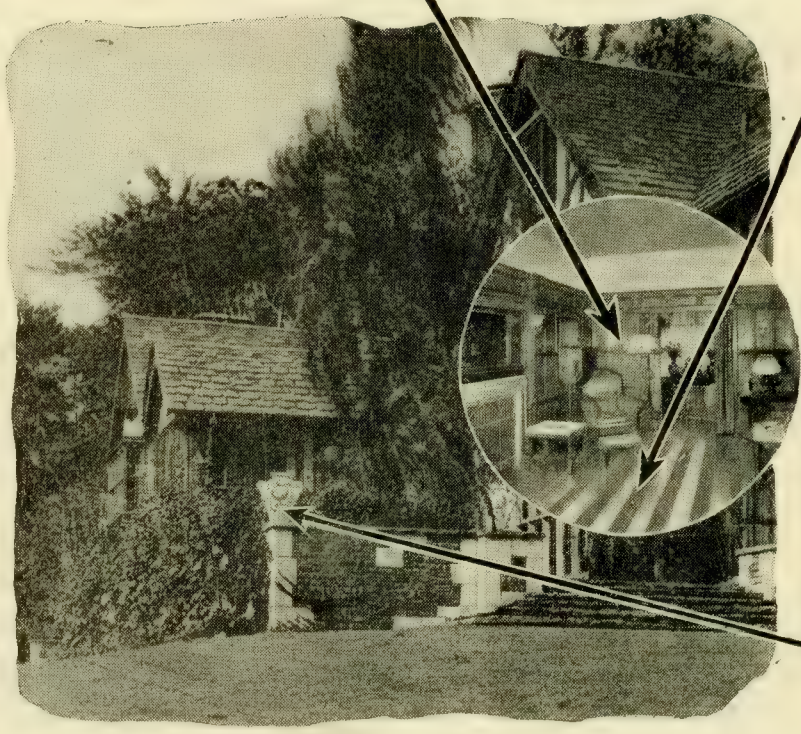
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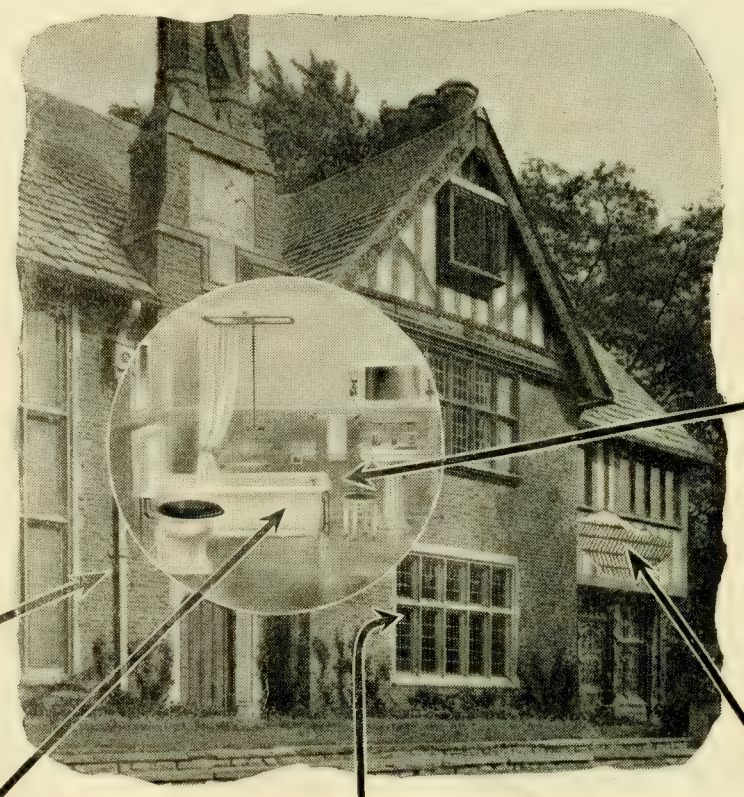


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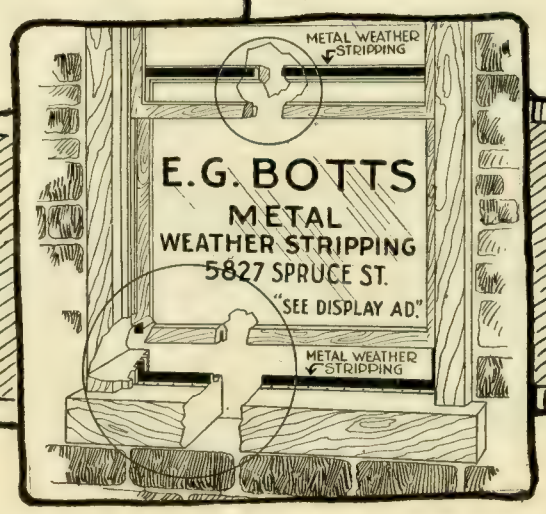






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to Joseph Margiani, 1319 North Forty-ninth street, Philadelphia.

Station Platforms, Cont. No. 571, Huntingdon and Tioga streets and Torresdale avenue, Frankford Elevated, Philadelphia, $102,450. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Steel, concrete, steel sidings, wood, slag or asbestos lumber roof, copper work, galvanized iron work. Contract awarded to F. J. Boas, 201 North Broad street, Philadelphia.

Station Platforms and Shelters, Frankford avenue and Pratt street, Cont. No. 574, Frankford Elevated, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Reinforced concrete platform, underpassage, floors, stairways, wood roofs, covered with asphalt and felt roofing, copper work, steel sash, steel enclosure. Contract awarded to F. J. Boas, 201 North Broad street, Philadelphia, $72,410.

Wall, Forty-ninth and Wyalusing avenue, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, St. John's Orphans Asylum, on premises. Concrete base, iron fence, 500 to 600 feet long. Contract awarded to Thomas Little & Son, 1713 Moravian street, Philadelphia.

Warehouse, Delaware avenue and Poplar street, Philadelphia, $150,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, L. Brenner Sons, & Perloff, 837 North American street, Philadelphia. Reinforced concrete, 6 stories, 100x160 feet, irregular, slag roof, concrete floors, metal lath, waterproofing, dampproofing, iron work, rolled steel doors and sash, stone foundations (elevators, electric lighting and plumbing reserved). Contract awarded on cost plus basis to Cramp & Co., Denckla Building.

Residences (2), 428-30 Locust street, Germantown, Philadelphia. Architect, Thomas B. Lippincott, 10 South Eighteenth street, Philadelphia. Owner, Mrs. T. William Kimber, 535 Church Lane, Germantown, Philadelphia. Hollow tile or brick and stucco, 2½ stories, 36x40 feet, wing 17x20 feet, slate roof, parquetry floors, hot air and hot water heat, electric lighting, tile work. Contract awarded to W. J. Ryder, 418 Perry Building, Philadelphia.

Elevated Station, Cont. No. 557, Torresdale avenue, Franford Elevated, $94,111. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Brick, concrete and steel, 1 story, 49x27 feet, concrete and slag roof, concrete floors, stone foundations, marble work, rolled steel sash, hollow metal doors, iron work. Contract awarded to W. W. Anstine & Co., Heed Building, Philadelphia.

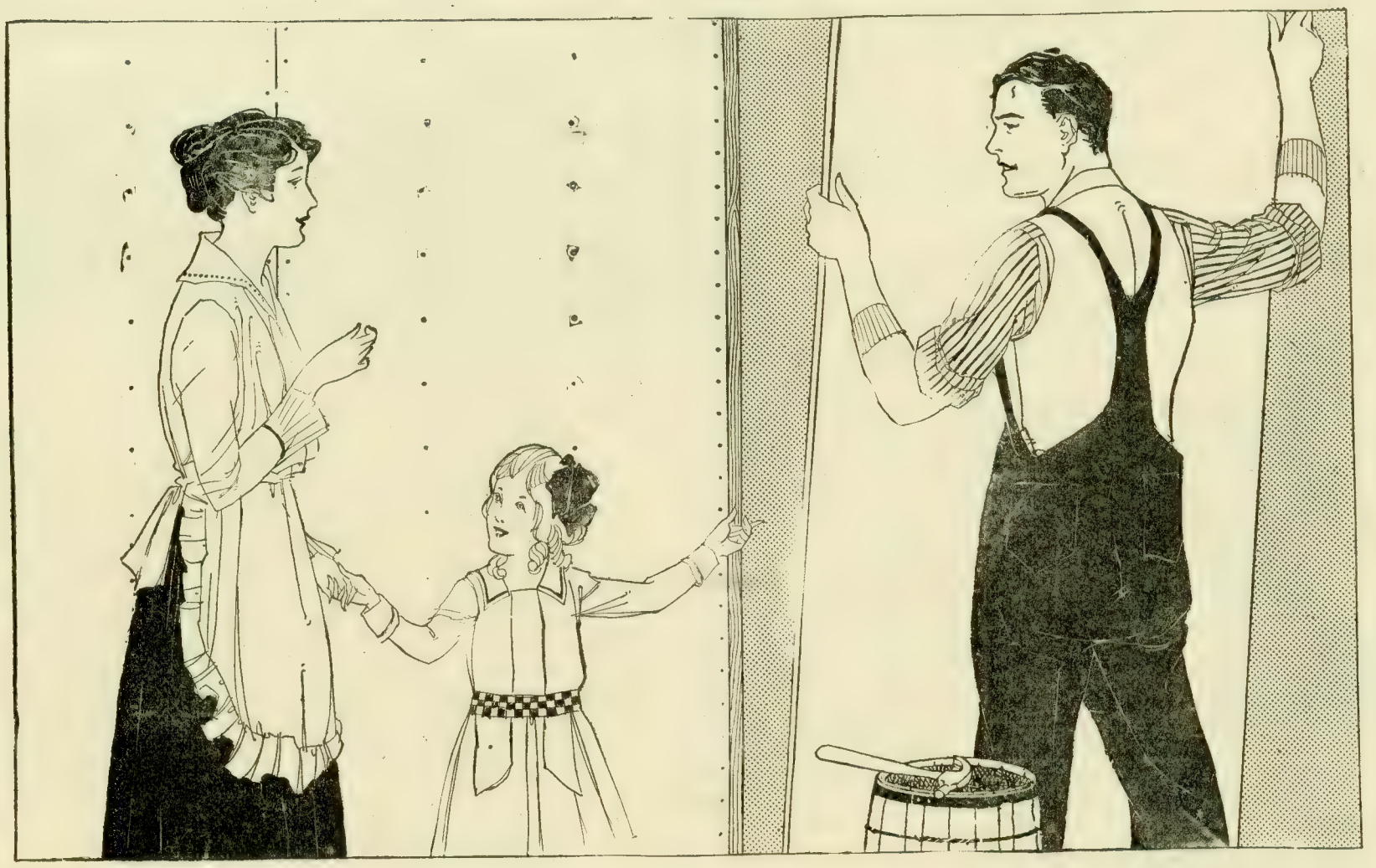
Elevated Station, Cont. No. 576, Frankford avenue and Pratt street, $49,871. Architect, private plans. Owner, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Brick, concrete and steel, 1 story, 22x65 feet, concrete and slag roof, concrete floors, stone foundations, rolled steel sash, hollow metal doors, iron work. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

Store (alts. and add.), 5618 Germantown avenue, Philadelphia. Architect, F. J. Boas, Broad and Race streets, Philadelphia. Owner, R. J. McNally, on premises. Brick and steel, 2 stories, 30x20 feet, slag roof, pine floors, metal lath, iron work, rolled steel sash, tile work, hot water heating. Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

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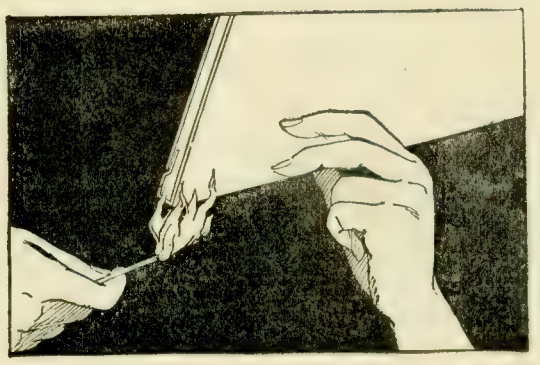
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Philadelphia, $12,000. Architect, Harry D. Sellers, 823 Broad street, Newark, N. J. Owner, name withheld. General alterations. Contract awarded to John Maurer & Co., 1542 N. Lawrence street, Philadelphia.

Elevator Hatch, Harris Building, Seventh and Arch streets, Philadelphia. Engineer, Stewart A. Jellett Co., Real Estate Trust Building, Philadelphia. Owner, Lit Bros., Seventh and Market streets, Philadelphia. Brick and steel, 7 stories, 21x12 feet, slag roof, stone foundations, hollow metal skylights, waterproofing, iron work. Contract awarded to John Gill & Co., Otis Building, Philadelphia.

Telephone Exchange (alts.), 26 West Chelten avenue, Philadelphia, $20,000. Architect, private plans. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Tile work, terra cotta partitions, cement floors, metal windows, plastering, plumbing. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Store and Residence (alts.), 5925 Girard avenue, Philadelphia, $1,200. Architect, J. S. Fuller, 1537 Chestnut street, Philadelphia. Owner, A. Berkowitz Meat Co., Sixtieth and Haverford avenue, Philadelphia. Flush bulks and interior alterations. Contract awarded to H. Sobel, 361 North Sixtieth street, Philadelphia.

PENNSYLVANIA
Construction News

Church (alts.), Scranton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. Peter's Cathedral, care of Rt. Rev. M. J. Hoban, on premises. Fire towers, stairs, exits, plastering, hollow tile work, tile work, fixtures, fire escapes. Plans in progress. Architect will take bids in two weeks.

Convent, Avoca, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. Mary's Congregation, Rev. F. M. Crane, Avoca, Pa. Brick, 3 stories, 36x74 feet, stone foundations, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. Owner will be ready for bids August 1st.

Church, Laurel street, Coaldale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. John's Roman Catholic Church, care of Rev. P. Guailias, Lansford, Pa. Brick and stone, hollow tile and stucco, 40x95 feet, asbestos shingle roof, pine floors, electric light, tile work, rolled steel skylights, roof ventilators. Owner taking revised bids due July 17th.

Church (alts. and add.), 2507 North Main street, Providence, Pa. Architect, Lester Davis, 616 Spruce street, Scranton, Pa. Owner, First Christian Church, Rev. H. W. King, 243 North Main street, Providence, Pa. Brick, 2 stories and basement, 60x25 feet, tile roof, hardwood floors, electric light, terrazzo work, interior and exterior alterations, altar wok. Owner ready for sub-bids.

School, Plains, Pa. Architect, Austin Reilly, Bennett Building, Wiles-Barre, Pa. Owner, School Board, Plains, Pa. Frame, 1 story, 45x48 feet, slag roof, pine floors, steam heat, electric light. Architect taking bids due July 15th. E. J. Donahue, Ashley, Pa.; A. Gusek, Miners' Mills, Pa.; Moses Griffiths, Plains, Pa., and Stanley Jeiznick, Parsons, Pa., are figuring.

School (alts.), Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, School Board, Plains, Pa. New heating system, general interior alterations, electric light. Architect taking bids due July 15th. E. J. Donahue, Ashley, Pa.; A. Gusek, Miners' Mills, Pa.; Moses Griffiths, Plains, Pa., and Stanley Jeiznick, Parsons, Pa., figuring.

Court House, Scranton, Pa., $200,000. Architect, F. A. Nelson, Connell Building, Scran-

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ton, Pa. Owner, City of Scranton, Scranton, Pa. Architect selected. Too early for details.

Central Boiler Plant, Olyphant, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton Pa. Owners, School Board of Olyphant, P. J. Ginter, on premises. High pressure, brick and concrete, 50x70 feet, tubular boiler. Preliminary plans in progress.

School (alt.), Dickson City (Columbus No. 1, Washington No. 2, Lafayette No. 3, Wilson No. 4 and Lincoln No. 6). Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, School Board of Dickson City, F. E. Weielson, Dickson City, Pa. Sheet metal work, plumbing, school furniture, electric fixtures, window shades, book cases, school equipment. Plans in progress.

School (alt. and add.), Eynon street, Scranton, Pa., $40,000. Architect, H. C. Rutherford, 316 Washington street, Scranton, Pa. Owner, Scranton School Board, W. J. Smith, president, Scranton, Pa. Brick, 2 stories, slate roof, hardwood floors. Plans in progress.

Store Fronts (3), Allentown, Pa. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner, name withheld. Plate glass, metal fronts, interior mill work. Architect ready for bids.

Apartment House, Lansdowne, Pa., $125,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, F. M. Longstreth, care of architect. Brick, concrete and steel, 4 stories, 40x78 feet and 40x78 feet, L shape, slag roof, maple and terrazzo floors, hollow tile, (2) elevators, stone foundations, steam heat, electric lighting, tile and marble work, mill work, hollow metal skylights, fire doors, fire tower, iron stairs, ornamental iron work. Architect taking sub-bids due July 15th.

Store (alts. and add.), Easton, Pa. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, steel work, 1 story, 60x30 feet, slag roof, metal store front, plate glass, marble and terrazzo work. Plans in progress.

Residence, Allentown, Pa. Architect, David Levy, Hamilton street, Allentown, Pa. Owner, care of architect. Hollow tile and stucco, 2½ stories, 40x25 feet, concrete foundations, tile roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Bank Building, Bethayres, Pa. Architect, Thomas B. Lippincott, 10 South Eighteenth street, Philadelphia. Owner, Bethayres Trust Co., Bethayres, Pa. Stone, 1 story, 31x52 feet, slag roof, steam heating, tile and marble work. Ready for bids in a few days.

Residence, Easton, Pa. Architect, A. D. Childsey, Easton, Pa. Owner, G. F. R. Bahman, Easton, Pa. Brick, 2 stories, 27x36 feet, stone foundations, slate roof, hardwood floors, hot air heat, electric light. Plans in progress.

Silk Mill (alts.), Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, National Silk Dyeing Co., Allentown, Pa. Steel trusses, brick work, raising roof, general interior alterations. Architects taking bids due as soon as possible. Ochs Const. Co. and W. H. Gangwere, Allentown, Pa., figuring.

Theatre, Twenty-seventh and Washington streets, Easton ,Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, Twin City Theatre Co., Clayton D. Buss, president, 104 North Fourth street, Easton, Pa. Brick, 1 and 2 stories, 50x112 feet, concrete founlations, slag roof, composition floors, vapor heating, electric lighting, hollow metal skylights, roof ventilators. Architect taking bids due July 17th. Benjamin Ryman, Phillipsburg, N. J.; Bechtel & Bechtel and Asa Smith & Co., both of Easton, Pa., are figuring.

Garage, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owners, Sears & Bowers, Beck street, Easton, Pa. Brick, 1 story, 27x75 feet, concrete foundations, slag roof, concrete floors, hot water heating, electric lighting, gasoline storage system. Architect ready for bids July 17th.

School (add.), West Easton, Pa., $12,000. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, West Easton School District, W. H. Bell, secretary, Easton, Pa. Brick, 2 stories, 34x40 feet, slag roof, maple floors, electric lighting, school equipment. Board taking bids.

Residence, Valley road, Merion, Pa. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owner, name withheld. Frame and stucco, 2½ stories, 32x30 feet, shingle roof, pine floors, stone foundations, hot water heat, electric light, tile work. Plans in progress.

Residence (alts.) to Apartments, Oakmont, Delaware County, Pa. Architects, Tunis & Genther, Real Estate Trust Building, Philadelphia. Owner, D. F. Ryan, 5916 Market street, Philadelphia. Frame and stucco, 3 stories, 35x80 feet, shingle roof, electric light, repairs to floors (plumbing reserved). Owner has received bids.

School, Lower Chichester Township, Delaware County, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, K. B. Pechmann, secretary, Board of Directors, School District of Lower Chichester Township, Pa. Brick, reinforced concrete,

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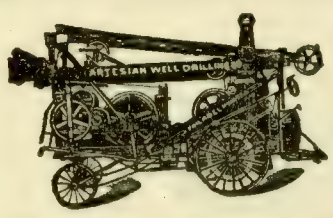
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steel and concrete, 2 stories, 144x61 feet, composition roof, maple and cement floors, hollow tile, metal lath, roof ventilators, waterproofing, ornamental iron work, warm air heat, eleteric light, blackboards, ornamental iron work. Architects taking bids due July 15th. J. M. Yardley, 1716 Sansom street; F. W. Van Loon, Perry Building; Standard Const. Co., 1713 Sansom street; William Provost, Jr., Chester, Pa., and Amster Const. Co., 705 East One Hundred and Thirty-third street, New York City, are figuring.

Y. M. C. A. Building, Easton, Pa. Architects, Martin & Kirkpatrick & Walter H. Thomas, 130 S. 15th st., Phila., Pa. Owner, Y. M. C. A., care of C. K. Williams, chairman, Building Committee, Easton, Pa. Steel, brick, reinforced concrete and terra cotta, 4 stories, 125x108 feet, Barrett roof, composition floors, hollow tile, metal lath, roof ventilators, waterproofing, steam heating, electric lighting, tile and marble work, slate work, rolled steel sash, copper skylights, kalamein doors, iron stairs, ornamental iron work. Architects taking bids due July 26th. Frank G. Stewart, 1619 Sansom street; Warren Moore Co., Colonial Trust Building; Standard Const. Co., 1713 Sansom street, Philadelphia; Butz & Clader, Allentown, Pa.; Ochs Const. Co., Allentown, Pa.; Bechtel & Bechtel, Easton, Pa., and Frederick H. Keiser, Pottstown, Pa., are figuring.

Rectory (alts. and add.), Minoaka, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. P. E. Lovelle, Minoaka, Pa. Frame, 3 stories, 30x35 feet, slate roof, hardwood floors, electric lighting. Plans in progress.

Residence (alt. and add.), Summit Hill, Pa., $15,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, C. J. Dorrian, on premises. Frame, 3 stories, 20x40 feet, slate roof, hardwood floors, electric light, general interior and exterior alterations. Plans in progress.

School and Gymnasium, Olyphant, Pa., $200,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Olyphant School Board, F. J. Ginter, president, Olyphant, Pa. Brick and stone, 3 and 2 stories, 72x140 feet, 50x70 feet, slag roof, hardwood floors, stone foundations, electric light, tile work. Plans in progress.

School (alt. and add.), Wilbur street, Scranton, Pa. Architect, Lester Davis, 616 Spruce street, Scranton, Pa. Owner, School Board of Scranton, care of W. J. Smith, Scranton, Pa. Frame and stucco, 2 stories and basement, 8 rooms, concrete and stone foundations, asbestos roof, pine floors, electric lighting. Plans in progress.

Golf Club, Newton Lake Farm, Greenfield Township, Lackawanna County. Architect, Edw. Langley, Scranton Life Building, Scranton, Pa. Owner, Elk View Golf Club, care of Mr. Hiller, Carbondale, Pa. Field stone and frame, 2 stories, 90x70 feet, stone foundations, slate roof, hardwood floors, pipeless heating, electric lighting. Plans in progress.

Bridge, Lincoln School, Dickson City, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, School Board of Dickson City, Dickson City, Pa. Reinforced concrete, 100 feet. Board ready for bids.

Church and School, Coaldale, Pa., $75,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. N. Lerna, Lansford, Pa. Brick, stone, steel, frame, 1 story and basement, 64x128 feet, slate roof, concrete foundations, hardwood floors, steam heat, electric light, tile and marble work, art glass, church goods, roof ventilators. Owner will be ready for bids July 20th.

School, Sugar Notch, Pa., $100,000. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, Sugar Notch School Board, care of John Tinner, premises. Brick, 2 stories. Too early for details.

Garage, Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Max Savage & Blom, Wilkes-Barre, Pa. Brick, 1 story, 75x130 feet, concrete foundations, slag roof, concrete floors, steam heat, electric light. Plans in progress.

High School, Gymnasium and Assembly Room (alt. and add.), Sunbury, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre ,Pa. Owner, Sunbury School Board, Miss M. Robbins, secretary, Sunbury, Pa. Brick, 3 stories, 60x100 feet, concrete foundations, slag roof, hardwood floors, electric light, metal lath, new heating and plumbing, roof ventilators. Plans in progress.

Residence, Wilkes-Barre, Pa., $50,000. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, A. H. Bleekly, Dorrenceton, Pa. Stone, 2½ stories, 50x38 feet, hardwood floors, electric light, tile work. Plans in progress.

School, Larksville, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Larksville School Board, James Gallagher, chairman, Larksville, Pa. Frame, 2 stories, 4 rooms, slate roof, yellow pine floors, steam heat, electric light. Architect ready for bids.

Convent (rebuilding and add.), South Washington street, Wilkes-Barre, Pa., $150,000. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Sisters of Mercy, care of architects. Brick, steel, concrete, fireproof, 3 stories, various sizes, tile floors, electric light, new plumbing, hollow metal skylights, roof ventilators. Architects will be ready for bids in three weeks.

Garage, Wyoming street, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, W. H. Roberts, on premises. Brick, 1 story, 50x97 feet, slag roof, concrete foundations and floors, steam heat, electric light. Architect taking sub-bids due July 17.

Garage, Meadowbrook, Pa. Architect, John Graham, Jr., Fuller Building, Philadelphia. Owner, A. B. Baylis, Meadowbrook, Pa. Stone, 1 story, 22x24 feet, slate roof, cement floors, hot water heating. Architect taking bids due as soon as possible. Fesmire Bros., Glenside, Pa.; Henry Specht, Willow Grove, Pa.; E. Allen Reeves, Abington, Pa., and Harry Murphy, Willow Grove, Pa., are figuring.

School, Willow Grove, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Upper Moreland School District, Willow Grove, Pa. Brick and hollow tile, 1 story, 147x54 feet, wing 78x40 feet, slate roof, pine and composition floors, stone foundations, steam heat, electric lighting, plumbing, ventilators. Architect has received revised bids.

Foundry (add.) and Haredning and Rumbling Building, Norristown, Pa. Architects, Lockwood, Greene & Co., 101 Park avenue, New York City; Owners, Wildman Mfg. Co., Norristown, Pa. Reinforced concrete, brick and hollow tile, 1 story add., 40x65½ feet, and 2 stories, 38x74 feet, slag and asphalt roof, concrete floors, safety treads, waterproofing, iron work, fire doors, slate work. Architects taking bids due July 19th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Residence and Garage, Wynnefield, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Robert A. Ferguson, 1003 South Fifty-first street, Philadelphia. Stone, 3 stories, 3 stories, 28x50 feet,

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wing 18x18 feet, garage, 2 stories, 25x20 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile and marble work, cement work, macadam drive. Owner is taking sub-bids.

Pennsylvania Contracts Awarded

Church, 213 West Green street, Hazleton, Pa., $70,000. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, Church of the Transfiguration, Rev. Dr. W. Kiviatkowski, Hazleton, Pa. Brick, hollow tile, 1 story, 60x112 feet, slate roof, yellow pine floors, vacuum heat, electric light, tile and marble work, rolled steel skylights, roof ventilators. Contract awarded to H. Campbell Const. Co., Hazleton, Pa.

Parish Hall (alt.) to School, St. Ann's street, Scranton, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, St. Ann's Congregation, Rev. F. Julius, on premises. Interior and exterior alterations, new plumbing, hardwood floors, new partitions, electric wiring. Contract awarded to Judge Lumber Co., Scranton, Pa.

Warehouse and Garage, Hazleton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Hazleton Produce Co., Hazleton, Pa. Brick, 1 story and basement, 120x87 feet, slag roof, wood floors, stone foundations, electric light. Contract awarded to Samuel Drasher, Hazleton, Pa.

Stable, Meadowbrook, Pa. Architect, John Graham, Jr., Fuller Building, Philadelphia. Owner, A. B. Baylis, Meadowbrook, Pa. Frame, 2 stories, 15x40 feet, shingle roof. Contract awarded to Fesmire Bros., Glenside, Pa.

Club Buildings (alts. and add.), Bailey Road, Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Country Club of Lansdowne, on premises. Interior alterations, frame and stucco, 1 story add., 20x29 feet, slate roof. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Residence (alts.), Hamilton street, Allentown, Pa. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner, J. Phillips, on premises. Complete rebuilding, slag roof, hardwood floors, vacuum steam heat, electric light, tile work, plumbing. Contract awarded to William L. Meyers, Fullerton, Pa.

Stores (alts. and add.), South Bethlehem, Pa. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner, Benjamin Goodman, 18 East Third street, South Bethlehem, Pa. Brick, steel, 1 story and basement, 33x90 feet, concrete foundations, slag roof, steam heat, electric light, tile and marble work, plate glass, sheet metal. Contract awarded to A. Schnitzer & Son, Bethlehem, Pa.

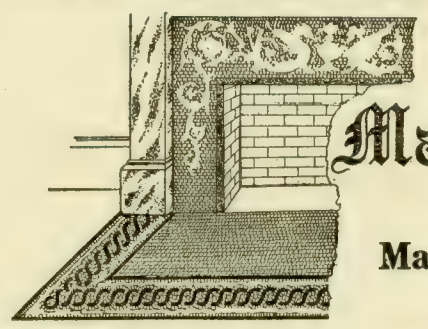
Sheridan School (alts.), Allentown, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, School Board of Allentown, care of George Wenner, secretary, Allentown, Pa. General interior alterations, new plumbing, maple floors, school equipment. Contract awarded to Butz & Clader, Allentown, Pa.

Herbst School (alts.), Allentown, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, School Board of Allentown, care of George Wenner, secretary, Allentown, Pa. General interior alterations, maple floors, electric wiring, new plumbing,

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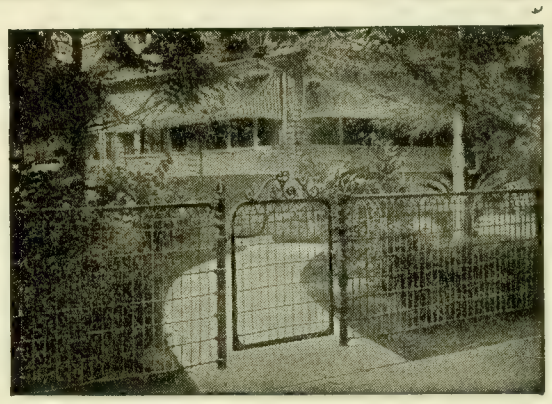
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school equipment. Contract awarded to W. H. Gangwere Co., Allentown, Pa.

Garage, Seventh and Northampton streets, Allentown, Pa., $53,000. Architect, A. D. Childsey, Easton, Pa. Owners, E. A. & W. Stilgreave, Easton, Pa. Brick and concrete, 2 stories, 66x113 feet, stone foundations, slag roof, cement floors, steam heat, electric light, gasoline storage system. Contract awarded to Bechtel & Bechtel, Easton, Pa.

Stable (alts.), Glenside, Pa. Architect, Horace Trumbauser, Land Title Building, Philadelphia. Owner, W. W. Harrison, Glenside, Pa. Lumber, carpentry, mill work, plastering, electric work, heating repairs, plumbing, painting, glazing, hardware. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Lodge Building, Jenkintown, Pa. Architect, Charles M. Pierson, 723 Wingohocking street, Philadelphia. Owner, I. O. O. F., Jenkintown, Pa. Stone and steel, 2 stories, 139x62 feet, Carey and cement roof, mineral, pine, tile, marble and terrazzo floors, metal lath, roof ventilators, iron work, electric lighting, vapor vacuum heating. Contract awarded to Frank W. Carman, Jenkintown, Pa.

NEW JERSEY
Construction News

Residence (alt. and add.), Haddon Heights, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, J. E. Fagen, on premises. Frame, 2 stories, 30x40 feet, vapor heat, tile work, new plumbing. Plans in progress.

Rectory, Twenty-sixth and Howell streets, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, Rev. A. C. Shublin, 2503 Howell street, Camden, N J. Brick, 2½ stories, 40x30 feet, stone foundations, slate roof, hardwood floors, steam heat, electric light. Owner has received bids.

Garage and Service Station, Tanner street, Haddonfield, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, J. L. Wallworth, Haddonfield, N. J. Brick, steel trusses, 1 story, 50x100 feet, stone foundations, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Architect taking bids due July 15th. L. T. West, G. Bachman and J. W. Draper, Camden, N. J.; H. S. Golf and L. P. Day, Haddonfield, N. J., are figuring.

Residence (alt. and add.), 513-15 Linden street, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, Lodge of Carpenters and Joiners, Local No. 393, care of architect. Brick and steel, 2 stories, 32x20 feet, slag roof, hardwood floors, vapor heat, electric light, tile work, general interior alts., plumbing, fire escapes. Architect ready for bids.

Bank, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, name withheld. Brick, stone, 1 story, 40x100 feet, concrete foundations, electric light, tile and marble work. Too early for details.

Apartment (alt. and add.), Second and Pine streets, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, name withheld. Interior alterations and additions on ground floor to cafeteria. Sketches in progress.

Garage and Service Station, Haddon Heights, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, Gordon Motor Co., on premises. Brick, steel, concrete, concrete foundations and floors. Too early for details.

Apartment House and Store, Haddonfield, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, name withheld. Brick and stone, 3 stories, 48x85 feet, concrete foundations, slag roof, pine floors. Plans in progress.

School, Morris Park, N. J. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Lopatcong Township, care of architect. Brick, 2 stories, 40x60 feet, concrete foundations, slate roof, hot air heat, electric light. Architect ready for bids due July 17th.

Dairy Building, Sharpton, N. J. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owner, William Richman, Sharpton, N. J. Brick and concrete, 2 stories, 41x50 feet, slag roof, cement work, electric lighting. Owner is taking bids.

Residence, Riverton, N. J. Architect, John F. Harbeson, 1535 Chestnut street, Philadelphia. Owner, Mrs. W. J. Curtis, Jr., Riverton, N. J. Hollow tile and stucco, 2½ stories, 32x90 feet, slate roof, oak floors, stone foundations, hot water heat, electric lighting. Architect taking revised bids due as soon as possible from Hugh B. Miller, Edgewater Park, N. J., and George W. Shaner, Palmyra, N. J., are figuring.

Office Building, Camden, N. J. Architects, Paul A. Davis, 1713 Sansom street, Philadelphia, and Arthur Truscon, 208 Temple Building, Camden, N. J. Owners, Camden Fire Insurance Association, Fifth and Federal streets, Camden, N. J. Brick, 2 stories, 35x90 feet, slag roof, cement floors, hollow tile, metal lath, waterproofing, wire work, iron work, iron stairs, kalamein doors, rolled steel sash, tile and marble work, steam heating, electric lighting. Architects taking bids due at 208 Temple Building, July 28th, at noon.

School, No. 2 (add.), Audubon, N. J. Architect, John H. Mowere, Phoenixville, Pa. Owner, Board of Education, Borough of Audubon, Camden, N. J. Brick and steel, 1 story, 2 wings, 108x55 feet, asbestos built-up roof, asphalt and pine floors, roof ventilators, stone foundations, steam heating, electric lighting. Lowest bidders: Fred A. Lang, Audubon, N. J., $107,975; J. M. Yardley, 1716 Sansom street, Philadelphia, $149,393; Standard Const. Co., 1713 Sansom street, Philadelphia, $121,500.

School (add.), No. 3, Audubon, N. J. Architect, David C. Lange, Audubon, N. J. Owner, Board of Education, Audubon, N. J. Brick, steel and stone, 1 story, 52x24 feet, wing 62x24 feet, asbestos asphalt roof, cement and maple floors, metal lath, safety treads, dampproofing, stone foundations, steam heating, electric lighting, iron work, tile work. Lowest bidders: Fred A. Lang, Audubon, N. J., $45.000; J. M. Yardley, 1716 Sansom street, Philadelphia, $53,933; Standard Const. Co., 1713 Sansom street, Philadelphia, $59,000.

Schools (2), Sicklerville, N. J., and Cedar Brook, N. J. Architect, Arnold H. Moses,

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136 South Fourth street, Philadelphia. Owner, Township of Winslow, care of Board of Education, Blue Anchor, N. J. Brick, 1 story, 40x60 feet, slag roof, pine floors, stoves. Owners taking bids due July 30th at 8 P. M. Fred Lange, Audubon, N. J., and William Congezer, Haddon Heights, N. J., will figure.

Office Building, Elizabeth, N. J. Architect, private plans. Owner, Samuel L. Moore Plant of Bethlehem Shipbuilding Corp., Ltd., Elizabeth, N. J. Steel, brick and reinforced concrete, 3 stories, 128x40 feet, slag roof, composition floors, hollow tile, roof ventilators, hollow metal doors, tile work, steam heating, electric lighting. Owners taking bids due July 19th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

School Building, Raritan, N. J. Architect, Alex. Merchant, 363 George street, New Brunswick, N. J. Owner, Board of Education, Township of Raritan, Middlesex County, N. J. Brick and steel, 2 stories, 134x43 feet, asbestos built-up roof, cement and maple floors, metal lath, safety treads, roof ventilators, iron work, copper skylights, iron work, alterations for composition floors, mastic floors, metal weather strips. Architect is ready for bids.

Office Building, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, name withheld Brick, reinforced concrete, 6 stories, 75x95x65 feet, concrete foundations, slag roof, pine floors, steam heat, electric light, tile, marble and terrazzo work, elevators, rolled steel skylights, fire doors, dining room equipment Plans in progress.

School (alts. and add.), Piscataway, N. J. Architect, Alex. Merchant, New Brunswick, N. J. Owner, Board of Education, Township of Raritan, Middlesex County, N. J. Steel, brick and terra cotta, 2 stories, 51x85 feet, wing 90x46 feet, composition floors, cement and maple floors, metal lath, safety treads, roof ventilators, iron work and stairs, stone foundations. Architect is ready for bids.

Church (alt. and add.), Woodbridge, N. J. Architects, Fowler & Seaman, First National Bank Building, Trenton. Owners, Trinity Church, care of Rev. W. H. Stoll, on premises. Brick, 1 story, irregular size, slate roof, hardwood floors, interior alterations, new pulpit. Plans in progress.

Residence, Cadwallader Heights, N. J., $25,000. Architects, Fowler & Seaman, First National Bank Building, Trenton. Owner, I. Kohn, on premises. Hollow tile, 2½ stories, 48x44 feet, concrete foundations, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Cadwallader Heights, N. J., $25,000. Architects, Fowler & Seaman, First National Bank Building, Trenton. Owner, S. Urken, on premises. Hollow tile, 2½ stories, 48x44 feet, concrete foundations, tile roof, hardwood floors, hot water heat, electric light. Plans in progress.

Store (alts.), State street, Trenton, N. J. Architects, Fowler & Seaman, First National Bank Building, Trenton. Owner, Fort Godwin, State street, Trenton, N. J. New store front, plate glass, general interior alterations. Plans in progress.

New Jersey Contracts Awarded

Church and School, Phillipsburg, N. J. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, St. Peter and Paul's Church, Rev. M. J. Basco, Phillipsburg, N. J. Brick, 1 story and basement, 42x80 feet, stone foundations, slate roof, hardwood floors, electric light. Contract awarded to Benjamin Ryman, Phillipsburg, N. J.

Office Building (alts.), Camden, N. J., $35,000. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. New partitions, mackite, mill work, iron and steel work, painting, glazing, electric lighting, tile and marble work, metal lath. Contract awarded to H. T. Grau Co., 1709 Sansom street, Philadelphia.

Store (alts. and add.), North Broad street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, J. Epstein, American Mechanics' Bank Building, Trenton. Brick, 1 story, 22x24 feet, slag roof, pine floors, tile work, plate glass, rolled steel skylights, electric wiring. Contract awarded to Nathan Milgaten, Trenton, N. J.

Miscellaneous Construction News

Clock Houses (2), Sparrows Point, Md. Architect, private plans. Owners, Bethlehem Steel Co., Sparrows Point, Md. Brick, concrete and steel, 1 story, 49x29 feet each, slag roof, cement floors, hollow tile, metal lath, dampproofing, concrete foundations, steam heat, electric lighting. Owners taking bids, due July 19. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Theatre, Store and Apartments, 1317 Pennsylvania avenue, Baltimore, Md. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Douglas Amusement Co., Baltimore, Md. Brick, steel, stone and reinforced concrete, 4 stories, 84x172 feet, asbestos and asphalt roof, pine floors, hollow tile, metal lath, concrete and stone ofundations, steam heating, electric lighting, tile and marble work, hollow metal skylights, fire doors, iron stairs, iron work. Architects taking bids due July 20th. John R. Wiggins & Co., Otis Building; Standard Const. Co., 1713 Sansom street, Philadelphia, and Charles Stockhausen, Price Const. Co., Consolidated Eng. Co., H. D. Watts Co., Singer Pentz Co., and Morrow Bros., all of Baltimore, Md., and F. W. Van Loon, Perry Building, Philadelphia, are figuring.

Residence (alts. and add.), Winston-Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, R. E. Lassiter, Winston-Salem, N. C. Frame, second story add., 20x30 feet, tile roof, pine floors, roof repairs, electric lighting, tile work, plumbing. Owner is taking bids.

(Continued from Page 638.)

Interpretation of contract, drawings and specifications where differences of opinion arise.

What rule applies in the solution of the method? Here is the rule I believe should apply: Where the limits of these variables can be determined in an estimate, and where the sum of any contingency item plus the net profit is equal to or higher than the variable, the builder assumes only the risk of finishing without profit, and also the possibility of adding to his profit by the contingency allowance. This might be considered a fair risk. In practice, however, does the builder, or can he, cover these variables? I believe you will agree with me when I say that on any fair sized operation this is a practical impossibility, and I need not present detailed statements supporting this, because you all know it as well as I do. Is there then in the business any method by which losses may be balanced throughout a period of time? If a manufacturer can sell at a fixed price, why not the builder? The difference is principally a matter of control. The manufactured article is made indoors—within a plant—and in a large measure to meet the inspection, approval and desires of the manufacturer, whose judgment is final, and he may more readily alter prices to meet cost variations.

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If you want Trap Rock or Slag, any size or grit, we are headquarters for same. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

PHILADELPHIA AS A BUILDING CENTER

Official Figures Showing in Detail the Constructive Activity of the First Six Months of 1920

Number of New Buildings Erected from January 1st to June 30th, 1920.

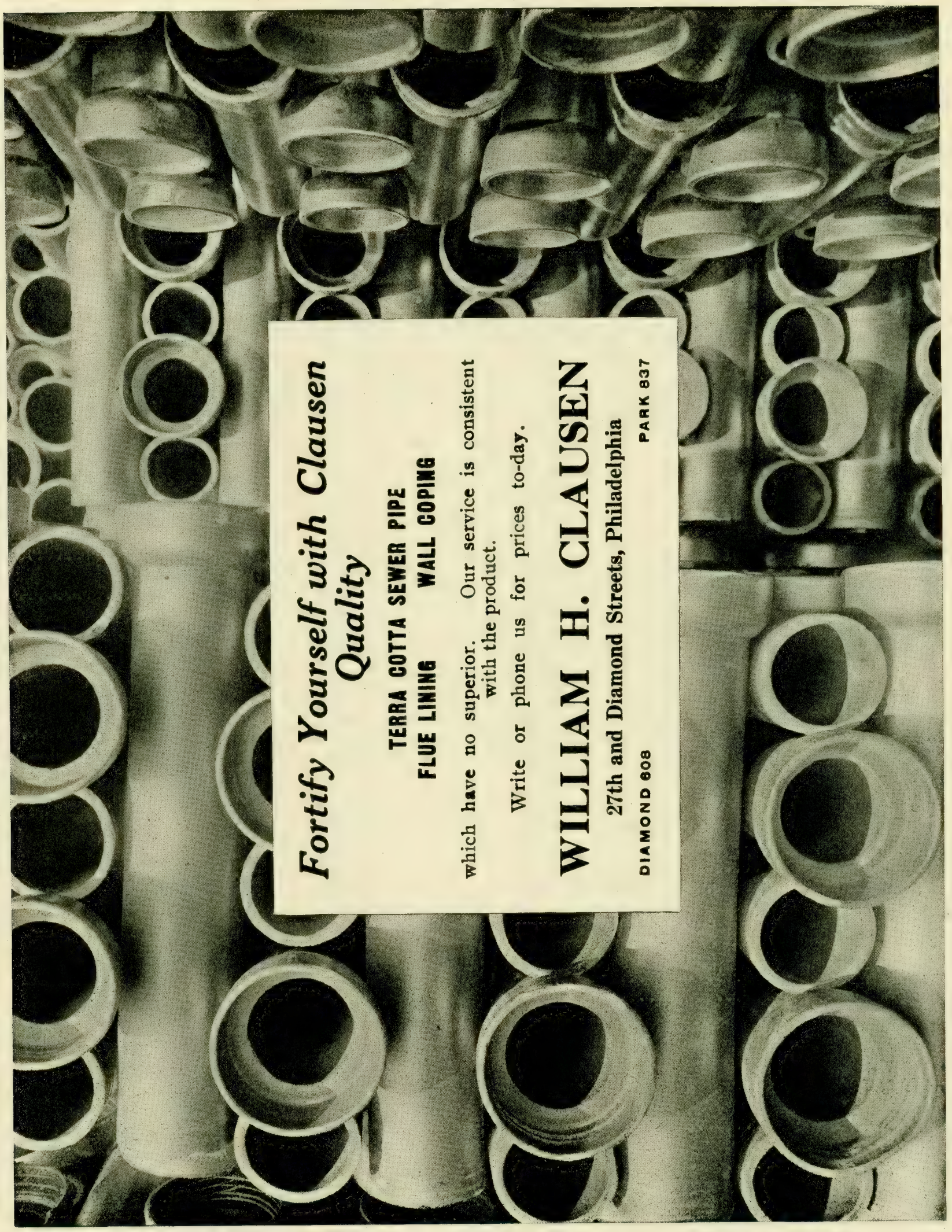
1920.	Jan.	Feb.	March.	April.	May.	June.	Operations.	Estim'd Cost.
Places of Amusement	..	..	2	1	..	2	5	$214,000
Convents	..	..	..	..	..	1	1	75,000
Churches	..	..	2	..	2	1	5	93,200
Dwellings, one-story	..	..	1	1	1	..	3	17,000
" two-story	41	37	234	430	76	9	827	5,792,250
" three-story	30	25	68	105	17	4	249	3,192,950
" Frame	3	2	3	5	4	21	38	171,700
Engine and Boiler Houses	..	..	2	..	..	4	6	88,000
Garages	29	45	112	216	136	116	654	1,673,215
Halls	..	..	2	..	..	..	2	112,000
Manufactories	5	6	13	11	9	4	48	4,027,600
Market Houses	1	..	..	1	..	..	2	42,000
Miscellaneous Buildings	7	11	11	18	11	15	73	104,325
Office Buildings	2	..	2	5	3	4	16	1,636,100
Power Houses	..	..	1	..	1	..	2	540,000
Railroad Stations	..	..	..	..	..	2	2	100,000
Rooming Houses	1	..	..	..	..	1	2	255,000
Schools	..	..	1	1	..	1	3	1,018,000
Stables	..	..	1	..	2	2	5	2,200
Stores	2	..	3	3	7	3	18	210,650
Tenement Houses	1	2	..	..	2	1	6	2,187,500
Warehouses	2	3	4	3	..	3	15	4,182,000
Welfare Buildings	..	..	1	..	..	..	1	34,000
Workshops	1	3	7	12	9	6	38	70,800
Total New Buildings	125	134	470	812	280	200	2,021	25,839,490
Additions	92	86	167	279	247	235	1,106	8,446,455
Alterations and Repairs	281	245	522	608	477	526	2,659	3,853,175
Grand Total							5,786	38,139,120
Fire Escapes							34	26,690
Heaters							71	50,715
Miscellaneous Work							985	264,265
Signs							72	57,455
							6,948	$38,538,245

TWO-STORY DWELLINGS—Including Two-story Stores and Dwellings.

Wards.	1	22	23	28	33	34	35	36	38	39	40	41	42	43	45	46	47	Totals
Jan.	..	..	..	..	1	..	..	12	1	..	..	..	27	..	..	..	..	41
Feb.	1	..	..	..	..	..	..	..	..	..	..	2	17	..	2	15	..	37
March	..	..	..	..	..	46	14	..	22	1	20	1	70	..	7	53	..	234
April	..	18	1	1	..	123	10	..	23	28	25	31	150	8	..	12	..	430
May	..	14	1	..	..	..	1	..	..	..	1	1	32	..	..	26	..	76
June	..	1	..	..	..	1	1	..	2	1	..	..	2	..	..	..	1	9
Totals	1	33	2	1	1	170	26	12	48	30	46	35	298	8	9	106	1	827

THREE-STORY DWELLINGS—Including Three-story Stores and Dwellings.

Wards.	5	21	22	23	34	35	40	42	45	46	47	Totals.
Jan.	..	1	..	..	..	..	..	8	..	21	..	30
Feb.	3	..	1	..	3	..	..	16	..	2	..	25
March	..	..	1	..	4	16	..	1	2	43	1	68
April	2	2	39	2	4	..	3	50	..	3	..	105
May	..	..	3	..	12	1	..	1	..	..	..	17
June	..	..	3	..	..	..	..	1	..	..	..	4
Totals	5	3	47	2	23	17	3	77	2	69	1	249


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WILLIAM H. CLAUSEN
27th and Diamond Streets, Philadelphia
DIAMOND 608 PARK 837

A building is erected to meet the exclusive ideas of the owner—two buildings are rarely alike; they are erected out of doors and are subject in a large degree to conditions which are not within the builder's control, and with consequent effect upon cost. Final approval of the work does not lie entirely with him, nor is he free entirely to use materials and methods which he believes will accomplish the desired results. Nor can the builder expect to add to the cost of a new job to balance the losses of the old one. This would be unfair to the new customer, but aside from that, you know how seldom we receive an order on a bid too high, and how easy it is to get business with a bid too low. Is the builder fair to himself, and to the owner, in assuming an unbalanced obligation in which certain items of cost lie entirely beyond his control, and without having either opportunity or method of compensation for such excess costs as arise from uncontrollable items? Remember the variable item is the big 90 per cent. and the only buffer between cost and selling price is the average 10 per cent. which is to cover the usual overhead and profit of the builder.

Considering then that there are these variables, and that full control is not within the builder's hands, what method is best? It certainly is the cost plus system, for it gives the owner his building at fair cost, he pays for the uncertainties if they arise, he is not charged with contingencies that never occur, he can control his quality, he can accept the builder's suggestions for reduced cost methods if he desires, he can combine his purchasing power with that of the builder, he can develop his ideas as the building proceeds, and when the job is done have the assurance that materials and workmanship are as he desires.

With all these advantages, why does the average owner prefer the lump sum—and why does he usually ascribe any unsatisfactory outcome to the system, while the unsatisfactory performance under the lump sum contract is not charged to that method? Principally, I believe, to the fact that our methods of conducting cost plus operations have not been developed to meet the needs of the system. A satisfactory outcome must be based on satisfactory methods. We must have mutual confidence; definite understandings in writing; accurate definitions, especially regarding the scope of the work, and what costs, if any, are borne by the builder. Further, we must have a competent representative of the owner continually on the work, or frequently enough to approve workmanship and methods and accounts daily. We must keep the owner advised of difficulties, must settle all accounts monthly and most certainly have good performance.

There are elements of risk in both forms of contract. Any poor performance under the cost plus plan reflects unfavorably both upon the builder and upon the method. Any careless attitude on the builder's part towards his obligations to the owner will surely be fatal. Close cooperation between the parties is essential.

I do not say that the cost plus contract is always best. We have liked it best on operations of fair size, especially those where speed is essential, and of course under present conditions, practically the only form applicable.

We believe that builders are entitled to fair profits on this basis, and that any tendencies towards meager percentage charges should be corrected. Any able self-supporting organization that renders the owner a good service should both ask and receive a fair profit, and the average owner recognizes that right.—*Building Industry.*

MAKING WOOD FIRE RESISTANT WITH PAINT

Fire retardent paints are the most practical means so far discovered by the Forest Products Laboratory by which small amounts of wood can economically be made fire resistant. The only other known methods of descreasing the inflammability of wood are to keep it wet, or to inject into it certain chemicals under pressure. These methods, though more effective than painting, are usually either impracticable or too expensive to be considered.

Ordinary calcimine or whitewash has proved in tests to be as fire resistant as any paint covering tried. It is cheap and convenient to use. Although it will not prevent the burning of wood exposed continously to a high heat, a good coat of calcimine on wood will decrease the danger of a blaze spreading from burning cigarettes, sparks, matches, and similiar small sources of fire. Calcimine is, of course more effective for inside than for outside use.

For exterior use numerous patented fire retardent paints are available. An effective outdoor paint which has been developed at the Forest Products Laboratory consists of linseed oil, zinc borate, and chrome green. This paint has maintained its fire resisting properties through more than three years of exposure to the weather.

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.

PEP PARAGRAPHS

A man in doubt is a predestined failure.

Self-confidence is a running start in any man's game.

Failure is attained by believing the job too big for you to tackle.

An ounce of hustling is worth more than many pounds of rustling.

A diploma is something to your credit, but after all it's only a diploma.

Don't be a parrot; let your talk show that you have a brain as well as a tongue.

The happiest guy we ever saw was one who sailed right into the thing he wanted to do.

A promise is all right as far as it goes, but it's the fulfillment that buys the baby's rattle.

They tell us not to strike a man when he's down, but sometimes a good, swift kick, properly placed, is a god-send.

Some folks believe so firmly that the world was made for man that they forget that man was made for the world.

If you're looking for success, get busy; if you're looking for something soft, seek a downy couch or a park bench.

After you have dined out with a highly powdered lady be sure you brush off your coat before going home to your wife.

(Copyright, 1920, by S. A. Chandler.)

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

You know what propaganda is, don't you? You know, too, how effective a weapon it is, if used properly, don't you? Well, advertising—honest, fair advertising—is the best propaganda we know of. Join the propagandists now! Advertise in the "Builders' Guide."

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Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

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Davis, Garfield W.....18 S. 7th St., Phila.

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Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

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Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

WALL COPING.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

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Richardson & Boynton Co.....1332 Arch St., Phila.

WATER PAINT.
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Southern, Wm. B., N. W. Cor. 12th and Spruce Sts., Phila.

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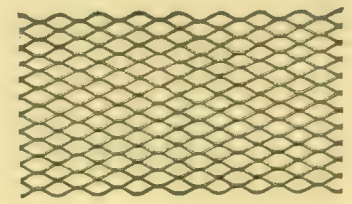
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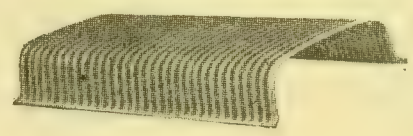
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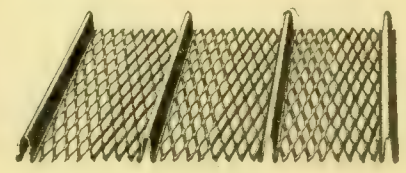
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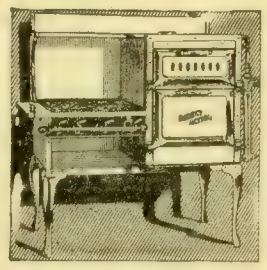


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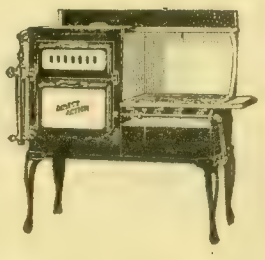
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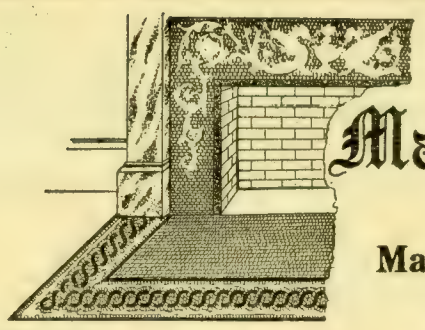
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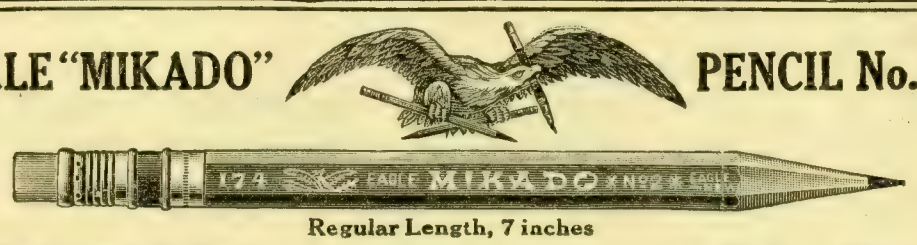
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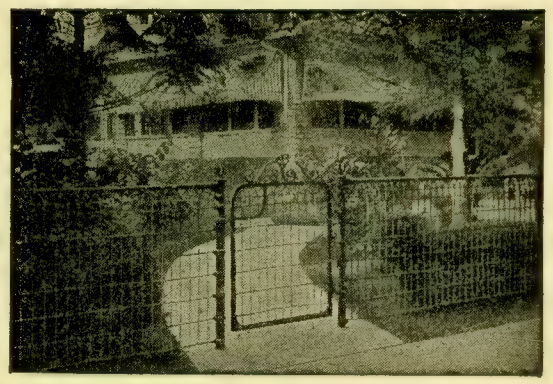
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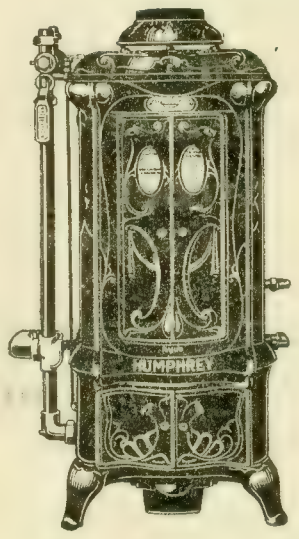
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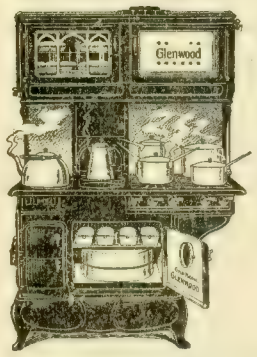
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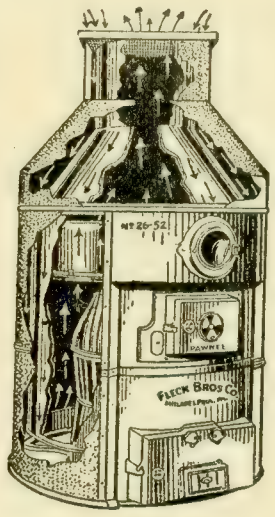


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VOLUME XXXV
Number 29

PHILADELPHIA
July 21, 1920

BUILDERS' GUIDE

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As The Editor Sees It

IN response to the general request of the National Federation of Construction Industries that information be sent to Honorable William M. Calder, Chairman of the Senate Special Committee of Reconstruction and Production, the following exhaustive study and analysis of the situation was prepared by John Irwin Bright by the authority of the Executive Committee of the Philadelphia Chapter of the American Institute of Architects:

To the Hon. William M. Calder,
United States Senator,
Chairman of the Senate Special Committee on Reconstruction and Production.

The Philadelphia Chapter of the American Institute of Architects desires to participate in the inquiry now being conducted by the Senate Special Committee on Reconstruction and Production.

After having conferred with the representatives of the construction associations in the meeting in Philadelphia on June 17th, it feels that its viewpoint on the question at issue can best be set forth in a separate analysis of the situation.

Basic Conditions.

The condition of the building industry can be satisfactorily described by statisticians, as it falls within the realm of ascertainable facts. But while we are interested in observing that its volume is subnormal and its characteristics are abnormal, we are chiefly concerned in seeking the reasons for these phenomena, for the disease can be attacked intelligently only after it has been correctly diagnosed. We, therefore, regard with indifference any proposals for or against a policy of freight priorities, or legislation intended to influence the migration of the laboring classes, convinced that the effect of these or similar measures can only be temporary and cannot materially alter the general situation.

The industrial revolution was brought about by the substitution of machine for hand process in prdouction. It dates from the latter end of the eighteenth century. Notwithstanding that the change in idustrial technique has resulted in a broadening of the scope of human information, the knowledge thus amplified has not been relatively deepened. In spite of the advancement in certain material comforts that the transformation has brought in its train, the sinister fact stares us in the face that for scores of millions of human beings high-speed production, made possible by the use of machinery, has been distorted by man's cupidity from a potential blessing into an actual curse. The modern slum, a legitimate offspring of the central factory system, is little if any improvement over the worst housing conditions of the middle ages. For these reasons we, the architects, find ourselves in complete disaccord with any suggestion which looks for substantial relief in the invention of new labor-saving machinery, not because the machine itself is inherently evil, but because in too large measure its product has been appropriated to private profit before it has been permitted to yield a living wage to its operatives.

Business Interest is the Prime Force.

The construction industry has, in the main, no control over its own product for the reason that it is the servant and tool of other and more determinative forces. The business interest of the prospective owner dictates the choice of site and the character of the building, the direction of the railway and the location of its terminals. It is, therefore, pure waste of time to concern ourselves with the misuse or disuse of the implement while taking no hand that guides it. The desire or the necessity to make a business profit, treating the accompanying social and economic problems as of comparatively small importance, lies at the root of our difficulties and determines to a large extent our actions.

Construction Interest the Servant of Capital.

The construction industry is involved in the present discussion only because it is unable to quote a price satisfactory to the investor. It is out of a job. The

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only thing asked of it is to cheapen its product, and this is manifestly impossible so long as it is organized on a system of wasteful, rather than stimulating, competition, while at the same time its employer continues to hold and exercise the power of increasing the cost of materials that enter into the finished product. Construction is necessary to house and transport the output of labor and cannot be considered apart from the business it shelters.

Present Conditions and Reform.

The two things to be studied are, therefore, first, the direction given to modern life by the theory of business profit, and, second, a reorganization of construction industry by which it may better serve its own personnel and the public at large.

Lack of Capital.

A fundamental cause of the diminishing volume of construction is, of course, the fact that capital can only be obtained for a profit making enterprise. Capital cannot be reasonably asked to sacrifice itself upon the altar of altruism, but, nevertheless, when profit alone is considered, only the highest bidder can obtain credit and sound enterprises are forced to compete with ventures of a highly speculative nature for the favor of money lenders.

The directors of banks, even when their customers are mainly of the poorer classes, administer the funds solely in the interest of their stockholders and themselves and no public condemnation attaches itself to the policy. That the depositors may be sorely in need of houses cannot receive consideration with the directorate unless a speculative builder may prove that he will, within a stated time, repay the capital sum advanced together with interest and premium on the loan. He naturally competes with other builders in search of credit, and when he succeeds it is at the cost of the house he sells. He degrades and diminishes his product until he wins the smile of capital. Thus in an overwhelming sense modern commercial philosophy accepts as axiomatic that service be subordinated to business profit.

The Manufacture of Wasteful Goods.

To a major extent the manufacturing industry is organized for the making of goods for a financial gain without a thought of the service or dis-service they may render to society. The sale of wasteful goods frequently yields a large money return, and, working under a system where the making of a profit rules other motives, the tendency is not only to concentrate on this class of output, but to invent and put upon the market new forms. While the practice is not universal, it is nevertheless true that so large a proportion of our productivity is devoted to waste that the stability of the social structure is being measurably impaired. While the welfare of the community is not totally ignored, it is treated as of secondary importance to the prosperity of the individual.

The Philosophy of the Business World.

This philosophy is generally accepted throughout the business world. It is the reason why the quality of durability of goods is of no advantage to the manufacturer, and in many cases is a distinct disadvantage.

Modern Business Method.

Now the placing upon the market of an avowedly useless article or an article in which the characteristic of waste is predominant, and the deliberate creation by advertising of a public demand for it, is a typical example of modern business method. A thoughtless public has been told that it is the operation of "making something out of nothing," that it is the "creation of wealth," while the very contrary is true. As a matter of fact, it is a completely futile employment of human effort. Its producers are economic burdens upon the community in the same sense and degree as are the inmates of a county poor house.

The Result.

This tendency, harmless enough when pursued to a limited extent, has grown to a point where, in conjunction with other causes, it has made impossible the carrying on of necessary building. While the friction has always existed, the great damage attributable to it has, for several reasons, escaped general attention. It is unobtrusive and all pervading. It does not work in fits and starts, and, therefore, society has been able to adjust itself to the handicap. Its very ubiquity has contributed to its concealment. But the war has unsparingly exhibited the weaknesses of an acquisitive society and what has been regarded as a normal tendency has suddenly become an intolerable oppression.

No Negative Legislation.

The concentration of a great portion of our energy upon luxury production and upon the production of short-lived wealth is the logical resultant of the industrial order. Accepting the system, at least for the present, we cannot legislate against its workings. Hence, to attack it with prohibitions is to invite failure. Indeed, for other practical reasons it would be dangerous in the extreme to forbid the production of any given article, even though all the evidence proclaimed it to be a useless luxury; for such a policy would but too likely sound the death knell of scientific research and artistic expression, the two things which more than any others have contributed to the development of the human race. Nevertheless, a way must be found to provide building for necessary but relatively unprofitable uses.

Capital Helpless.

If the sole aim of the construction industry is to seek employment for itself, then it is probably true that, given a sufficient amount of capital, such an aim could be attained. But there is no chance that in the immediatet or distant future credit, privately controlled, will serve other than the highest bidder, leaving the situation much as it is at present.

The Action to Take.

This rapid and incomplete sketch of our social and economic system reveals how small is the chance that anything of moment can be accomplished by a reliance upon the time-honored formulae. But the situation, although grave, has a fortunate aspect, for it furnishes the opportunity to the construction industry to arise to the occasion.

Let it commence by proclaiming itself an instrument of public service, insofar as its duty to the community will be considered before profit.

Let it refuse to operate in the sole interest of its private employers.

Let it insist that the execution of necessary building, properly related to a general scheme, shall take precedence over less urgent needs.

Let it concern itself with the social and economic welfare of its own personnel as a means to true efficiency.

What will such a program lead to in terms of action?

Necessities of Life.

It is unquestionably true that an industrial system, or even any particular industry, which fails to make possible adequate shelter, food, clothing and recreation for all of its operatives is not worthy to exist. Its basic charter must include the obligation to so distribute and so place its earnings that the employee will be afforded a fair opportunity to purchase the necessities of life.

The Lack of Houses.

With housing standing in the first group of civilization's demands, the terrible indictment lies against the industrial system that throughout the entire world it is impossible to build a home for those earning low wages or salaries at a cost

(Continued on Page 671)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Wall, Essex street and Seminole ave., Philadelphia. Architect, John Graham, Jr., 10 South Eighteenth street, Philadelphia. Owner, Colonel Gilmore, on premises. Concrete, 800 feet long. Architect taking bids due July 24th at 9 A. M. William J. Gruhler & Co., 219 East High street; F. Elvidge & Son, 5522 Germantown avenue, and Pringle Borthwick, 8018 Germantown avenue, are figuring.

Garage, Adams street, West of Cedar street, Philadelphia, $6,000. Architect, private plans. Owner, E. G. Salzman, 2659 Aramingo avenue, Philadelphia. Brick, 1 story, 56x70 feet, slag roof, cement floors, electric lighting, cement floors. Owners will build.

Storage Building, Northeast Corner Eighth and Locust streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, William Goldstein, 1001 Filbert street, Philadelphia. Brick, 1 story, slag roof, maple and composition floors. Architect is ready for revised bids.

Mill Building, Sedgley avenue and L street, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Edward B. Steinmetz Co., Inc., Huntingdon and Hancock streets. Reinforced concrete, 2 stories, 48x104 feet, slag roof, cement floors, metal lath, waterproofing, dampproofing, iron work, fire escapes, rolled steel sash, hollow metal skylights, fire and rolling steel doors, concrete foundations (elevator, heating, electric lighting and plumbing reserved). Architects taking bids due July 22d. John R. Wiggins & Co., Otis Building, and Mackle-McClelland Co., Drexel Building; Cramp & Co., Denckla Building, are figuring.

Store (alts.), Northeast Corner Eighth and Noble streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Lewis Greenberg, on premises. Alterations to first floor of building, 30x30 feet, plastering, hot air heat, electric light, brick work, carpentry, mill work, metal ceiling, flush bulks, iron work, sheet metal work. Architects have received bids.

Residences (3) to Apartments, 2301, 2322-24 North Park avenue. Architects, Frank E. Hahn, Inc., Denckla Building, Philadelphia. Owner, Dr. D. Hyman, Ninth and Market streets, Philadelphia. Changing residences to apartments, new brick add., 3 stories, 16x20 feet, slag roof, hardwood floors, vapor heating, electric lighting, tile and marble work, plumbing, fire escapes. Plans in progress. Will take bids in one week.

Elevator Enclosure, 2056 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, on premises. Plaster and metal lath, 4 stories, mill work, carpentry, iron work, fire doors. Architect has received bids.

Office Building (add.), 1913-15 East Allegheny avenue. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Potts & Thomson, 2521 Frankford avenue, Philadelphia. Brick, steel, limestone, 2 stories, 36x65 feet, slag roof, pine floors, metal lath, stone foundations, steam heat, electric light, rolled steel sash, iron work and stairs, roof ventilators, tile and marble work. Architect taking bid from Frank G. Stewart, 1619 Sansom street, who will build.

Store (alts.), 1628 Columbia avenue, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, George D. McClarin, on premises. Interior alterations. Architect taking bids due July 24th. E. C. Durell, 1713 North Twenty-fourth street; Philadelphia Wood Working Co., 310 Columbia avenue, and Kramer Woodworking Co., Fourth and Lehigh avenue, are figuring.

Residence (alts.) to Apartments, 2016 Wallace street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. James Wilson, care of architect. Interior alterations, parquetry floors, linoleum, hot air heating, electric lighting, plumbing, sheet rock partitions. Architect is ready for sub-bids.

Bank Building, Ridge avenue and Diamond street, Philadelphia. Architect, private plans. Owner, Citizens' Bank, 22 South Third street, Philadelphia. Brick, terra cotta and stone, 1 story, 45x40 feet and 40x11 feet, slag roof, composition and tile floors, metal lath, iron work, electric lighting, steam heat, stone foundations. Owners have received bids.

Store (alts.), 533 Market street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, A. S. Goldberg, 533 Market street, Philadelphia. New elevator rearrangement, new front. Plans in progress.

Cafe (alts.), 17 South Sixteenth street, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Caruso Italian Cafe, 17 South Sixteenth street, Philadelphia. Changing entrance, partitions, artificial stone, mill work, leaded glass, ornamental iron work. Ready for bids in a few days.

Club House, 1620-30 Latimer street, Phila. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Colonial Dames, Pennsylvania Society, 1525 Locust street, Philadelphia. Brick, 3 stories, 40x80 feet, stone foundations, steam heat, electric lighting, tile and marble work. Plans in progress.

Office Building, 50 South Third street, Philadelphia. Architects, Dreher, Churchman, Paul & Ford, 1424 Walnut street, Philadelphia. Owners, James Gallagher, Inc., 17 South Third street, Philadelphia. Stone and brick, 2 stories, 13x25 feet, composition roof, maple and pine floors, stone foundations, pipeless heating, electric lighting, tile and marble work, iron work. Architects have received approximate bid.

Hotel (alts.), Thirteenth and Walnut streets, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, St. James Hotel, care of J. H. Slocum, manager, on premises. General interior alterations, (62) new bath rooms, tile and marble work, macite partitions, plastering, plumbing, painting, carpentry, mill work, plate glass, decorating. Owners will build.

Store (alts. and add.), 4674 Frankford avenue, Philadelphia. Architect, Charles S. Parker, 5018 Schuyler street, Philadelphia. Owner, P. Banks, on premises. New store front, cement work, stone foundations, composition floors, electric lighting, iron work (hot water heating and bulks reserved). Architect will be ready for bids in a few days.

Residence (alts. and add.) to Store and Apartments, 1637 North Fifty-second street, Philadelphia. Architect, I. W. Levin, 530 Ritner street, Philadelphia. Owner, J. Jacobson, 5102 Viola street, Philadelphia. Brick add., 3 stories, 16x25 feet, slag and tile roof, hardwood floors, metal lath, metal ceilings, flush bulks, mill work, marble work, hot water heating, electric lighting. Plans about completed. Owner will be ready for bids in a few days.

Residence (alts.), 1626 North Franklin street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Samuel Englander, 1630 North Franklin street, Philadelphia. General alterations, electric lighting, plastering, painting, new heating system. Plans in progress.

Store and Warehouse, 704-06-08 South Sixth street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owners, Coroncos Bros., on premises.

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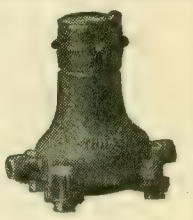
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Building (alts.) and Warehouse, Palethorpe and Turner streets. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Keystone Spinning Mills Co., 1631 North Second street, Philadelphia. Reinforced concrete and brick, 2 stories, 95x60 feet, slag roof, concrete and composition floors, metal lath, safety treads, roof ventilators, dampproofing, iron work, fire escapes, fire doors, copper skylights, rolled steel sash, marble work. Architects have received revised bids.

Apartment Building, Nineteenth, Girard avenue and South College avenue, Philadelphia. Engineer, H. C. Hutchison, care of Bethlehem Steel Co., Bethlehem, Pa. Owner, Ansonia Trust Co., care of Charles W. Butler, president, 1929 Girard avenue. Brick, stone, terra cotta, steel and concrete, 12 stories, 220x111 feet (288 apartments) and roof garden, tile, canvas and slag roof, hollow tile, metal lath, elevators, safety treads, roof ventilators, steam heating, electric lighting, tile, marble and terrazzo work, fire doors, bank fixtures, fire tower, iron stairs, ornamental iron work (first floor to be offices for trust company and stores. Owners taking approximate bid from Bowden Const. Co., 1713 Sansom street, Philadelphia.

Store and Storage Building (alts.), northwest corner of Sixteenth and Susquehanna avenue. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Mr. Spiro, on premises. Brick work, carpentry, millwork, general alterations, hot air heat, electric lighting, marble work, metal ceilings, cabinet work, flush bulks, structural iron. Owner will be ready for bids in one week.

Residence (alts.) to Apartments, 1809 Pine street, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia.. Owners, Philadelphia Development Co., Franklin Trust Building, Philadelphia. General remodeling. Plans in progress.

Store and Warehouse (alts.), 38 North Ninth street, Philadelphia. Architect, H. H. Kline, 1612 South Fourth street, Philadelphia. Owners, Price Electric Manufacturing Co., on premises. General alterations, steam heating, electric lighting, tile and marble work, cabinet work, electric elevator, hardwood floors, flush bulks. Architect will be ready for bids in a few days.

Storage Building, northeast corner of Eighth and Locust streets, Philadelphia. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Wm. Goldstein, 1001 Filbert street, Philadelphia. Brick, 1 story, 166x72 feet, slag roof, maple and composition floors, stone foundations, steam heat, electric lighting, metal lath. Architect taking revised bids, due July 24th. E. C. Druell, 1713 North Twenty-fourth street; D. Henwood, 717 South Sixty-third street; E. E. Hollenback, Inc., 1804 Brandywine street, and John Schnable, Denckla Building, are figuring.

Shop (add.), 1815 Sedgley avenue, Philadelphia, $4,000. Owners, Steadman Machinery Co., on premises. Brick, 1 story, 34x24 feet, slag roof, electric lighting. Owner will build.

Factory (alts. and add.) and Garage, Margaret and James street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Blumenthal Bros., on premises. Reinforced concrete and brick. Plans in progress.

Store and Residence (add.) and Garage, southeast corner of Seventh and Sigel streets. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, I. Krasner, 1638 South Seventh street, Philadelphia. Brick addition, 2 stories, 28x18 feet. Garage, 1 story, 8x18 feet, slag roof, cement and pine floors, new partitions, stone foundations, hot water heating, electric lighting, flush bulks. Owner will be ready for bids in a few days.

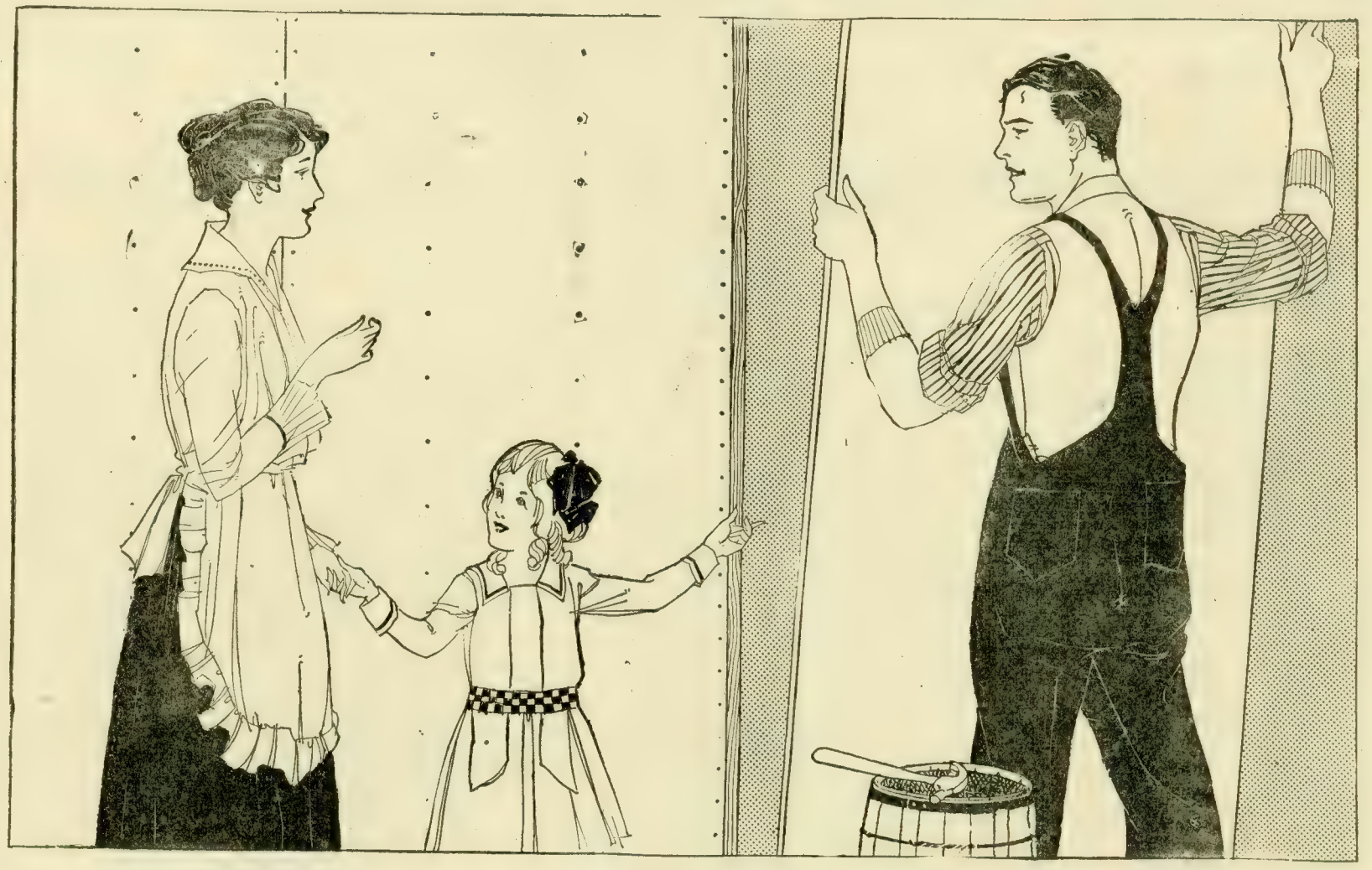
Steel Superstructure for Hydraulic Accumulator at Forge Shop, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Major Lumsden, Frankford Arsenal, Philadelphia. Owners taking bids, due July 30th. Kober Const. Co., 34 South Seventeenth street, is figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Switch House, Holmesburg Junction, Philadelphia. Architect, private plans. Owners, American Manganese Bronze Co., Holmesburg Junction, Philadelphia. Brick and concrete, 1 story, 18x37 feet, concrete roof and floor, rolled steel sash, iron doors, iron work. Con-

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tract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Store and Dwelling, Southeast Corner Fifth and Gaskill streets, Philadelphia, $8,500. Architect, private plans. Owner, J. J. Cohen, 523 South Fifth street, Philadelphia. General alterations, electric lighting, hot water heating, hardwood floors, new front, tile and marble work, metal ceilings. Contract awarded to Charles Belinsky, 2504 South Sixth street, Philadelphia.

Church (alts. and add.), Seventh street, North of Hunting Park avenue, $8,000. Architect, private plans. Owner, Trustees of Taylor Methodist Episcopal Church, on premises. Stone, 1 story, 36x64 feet, general alterations. Contract awarded to Thomas Connor, 3329 North Fifth street, Philadelphia.

Sotre and Dwelling (alts .and add), 6115 Woodland avenue, Philadelphia, $8,000. Architect, private plans. Owner, T. Tannenbaum, 6131 Woodland avenue, Philadelphia. Brick, add. 1 story, 15x7 feet, slag roof, electric lighting, hot water heating, new front, general alterations and additions. Contract awarded to Harry Platt, 511 Fernon street, Philadelphia.

Tank House (add.), C street, North of Westmoreland street, $4,000. Architect, private plans. Owners, Nicetown Dye Works, on premises. Brick, 1 story, 51x17 feet, slag roof, cement floors. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Store and Dwelling (alts.), 4077 Market street, Philadelphia, $3,800. Architect, private plans. Owner, B. Medoff, on premises. General alterations. Contract awarded to H. Seidman, 1312 North Sixth street, Philadelphia.

Store and Residence, 738 South Fourth street, Philadelphia, $10,000. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, I. Matuck, on premises. Brick, 3 stories, 18x62 feet, slag roof, pine floors, hot water heat, electric lighting, tile and marble work, metal ceilings. Contract awarded to Jacob Iagnator, 1101 North Forty-second street, Philadelphia.

Store (alts.), 128-130 North Second street, Philadelphia. Architect, private plans. Owners, C. B. Porter & Co., on premises. General interior alterations. Contract awarded to Stewart Bros., 2526 North Orkney street, Philadelphia.

Store (alts.), 11 North Thirteenth street, Philadelphia, $3,250. Architect, private plans. Owners, S. Parsons & T. Miles, New York City. Flush bulks, interior alterations. Contract awarded to Basch & Co., 1420 South Front street, Philadelphia.

Club (alts.), Southwest Corner Thirteenth and Spruce streets, Philadelphia, $2,400. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, College Club, on premises. Carpentry, mill work, plastering, plumbing. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Sub-station, Northeast Corner Milnor and Hegerman streets, $15,000. Architect, private plans. Owners, Henry Disston Sons Co., Unruh and Tacony streets, Philadelphia. Brick, 1 story, 27x74 feet, slag roof, steam heat, electric light. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Restoration of Old Christ Church, second street above Market street. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, Old Christ Church, on permises. Painting, glazing, mill work, plastering, metal lath, iron work. Contract awarded to Carr & Courtenay, 43 South Seventeenth street, Philadelphia.

Garage, 3729 Old York Road, Philadelphia, $20,000. Architect, private plans. Owner,

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Nicholas Masfie & Son, on premises. Brick, 1 story, 116x60 feet, slag roof, cement floors, electric lighting, steam heating. Contract awarded to Sydney Masfie, 3729 Old York Road, Philadelphia.

Radial Brick Chimney, Southeast Corner Keystone and Cottman streets, $12,000. Architect, private plans. Owners, L. H. Gilmer Co., on premises. Brick, 175 feet high. Contract awarded to W. D. Lukens, North Wales, Pa.

Residence (add.), 135 West Washington Lane, Philadelphia, $5,000. Architect, private plans. Owner, Rachael T. Bacon, on premises. Stone, 1 story, 20x16 feet, slag roof, hot water heat, electric light, pine floors. Contract awarded to William C. Wright, 22 Harvey street, Philadelphia.

Office, Southeast Corner Amber and Venango streets, Philadelphia, $5,000. Architect, private plans. Owners, Gill Glass Co., on premises. Brick, 1 story, 35x50 feet, slag roof, steam heat, electric lighting, maple floors. Contract awarded to Hetzel & Son, 1542 Womrath street, Philadelphia.

Church and Parish House, Willow Grove avenue, Chestnut Hill, Philadelphia. Architect, Walter M. Thomas, 130 South Fifteenth street, Philadelphia. Owners, St. Martins-in-the-Field, care of Rev. J. Leroy, Willow Grove avenue and St. Martin's Lane, Chestnut Hill, Philadelphia. Stone and steel, 1½ stories, 55x65 feet, wing 35x35 feet, slate roof, maple floors, metal lath, iron work, rolled steel skylights, tile work, steam heating, electric light, stone foundations. Contract awarded to Alfred E. Martin, Willow Grove avenue, Chestntu Hill, Philadelphia.

Store (int. alts.), 912 Chestnut street, Philadelphia. Architect, John C. Brugger, 505 Chestnut street, Philadelphia. Owner, Library Bureau, on premises. Interior alterations, refinishing floors, electric work, painting, wood paneling ceilings, steel or wood columns in basement. Contract awarded to John M. Yardley, 1716 Sansom street, Philadelphia.

Retaining Wall, Aramingo avenue, South of Huntingdon street, $4,000. Architect, private plans. Owners, J. T. Lewis & Bros. Co., Lafayette Building, Philadelphia. Concrete. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Stores (alts.), 2702-04 Germantown avenue, $3,750. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Talking Machine Co., 1225 Chestnut street, Philadelphia. General alterations, electric lighting, tile and marble work, hardwood floors. Contract awarded to John Schnable, Denckla Building, Philadelphia.

Store and Manufacturing Building (alts.), 809 Arch street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owners, M. Kohn & Sons, on premises. New front, carpentry, millwork, cement work, heating repairs, electric lighting, composition floors. Contract awarded to W. O. Springer, 2004 Naudain street, Philadelphia.

Garage and Pipe Storage Building, Tenth and Hutchinson streets, near Erie avenue, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Froelich Bros., Inc., 142 North Seventh street, Philadelphia. Brick and steel, 1 story, 40x50 feet and 30x113 feet, slag roof, cement floors, iron work, stone foundations (heating, electric work reserved). Contract awarded to Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia.

Garage, 6806 Lawnton avenue, Philadelphia, $4,000. Architect, private plans. Owner, W. J. Fry, on premises. Stone, 1 story, 21x23 feet, slate roof, electric lighting, cement floors. Contract awarded to W. J. Gruhler & Co., 219 High street, Philadelphia.

Garage, Lee street, south of Cumberland street, Philadelphia, $3,200. Architect, pri-

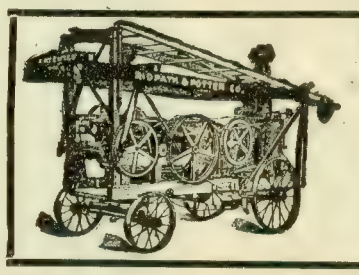


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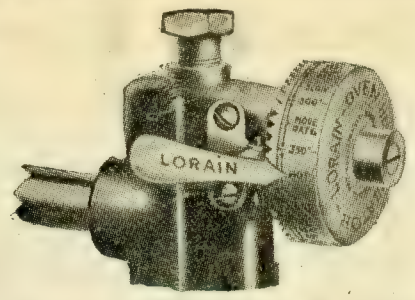
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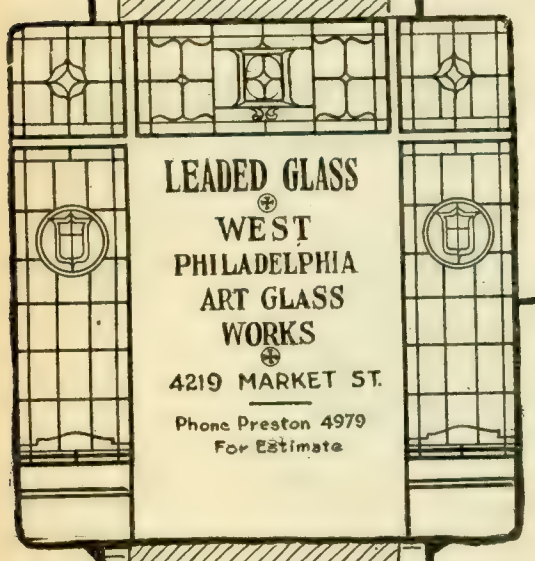
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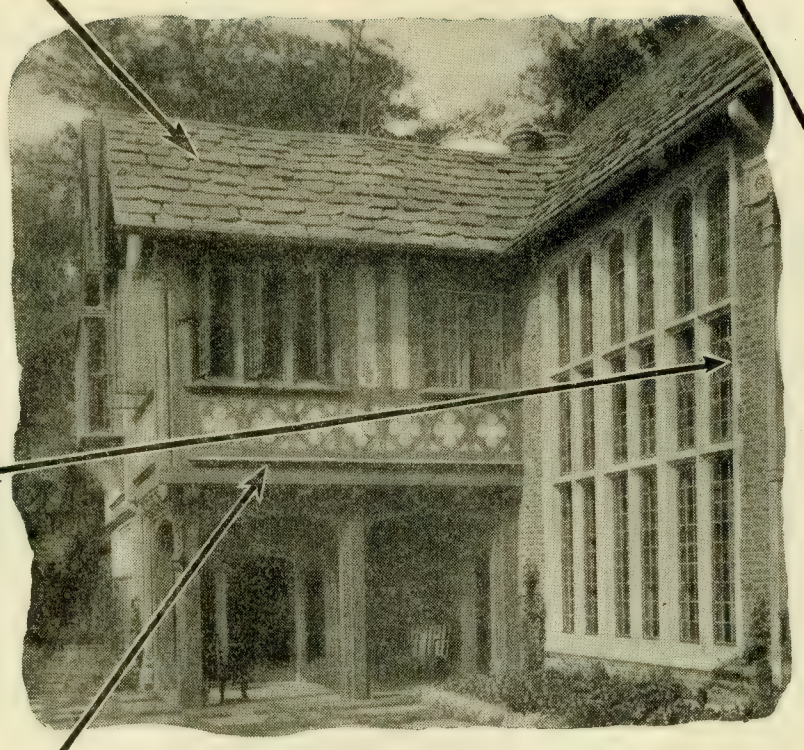
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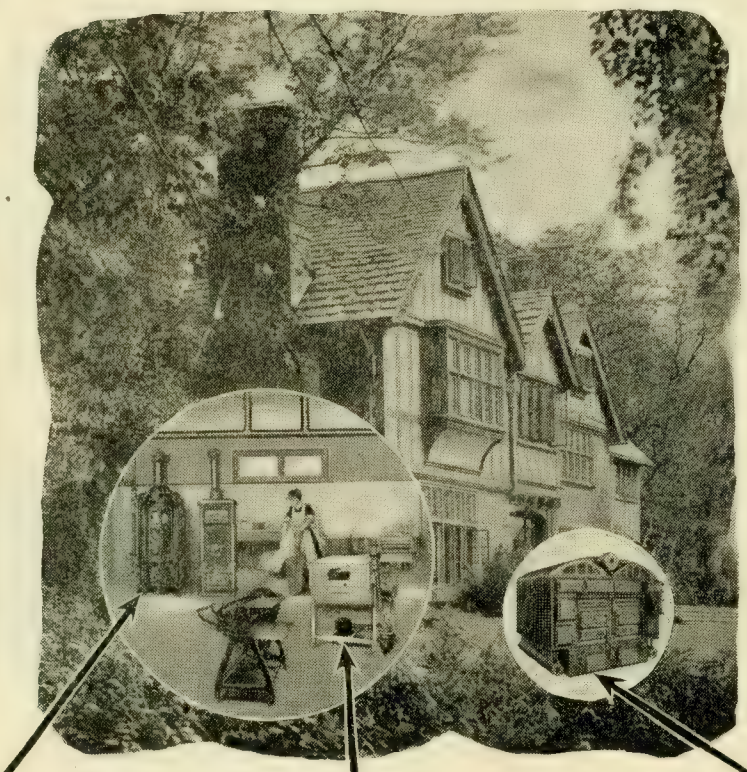
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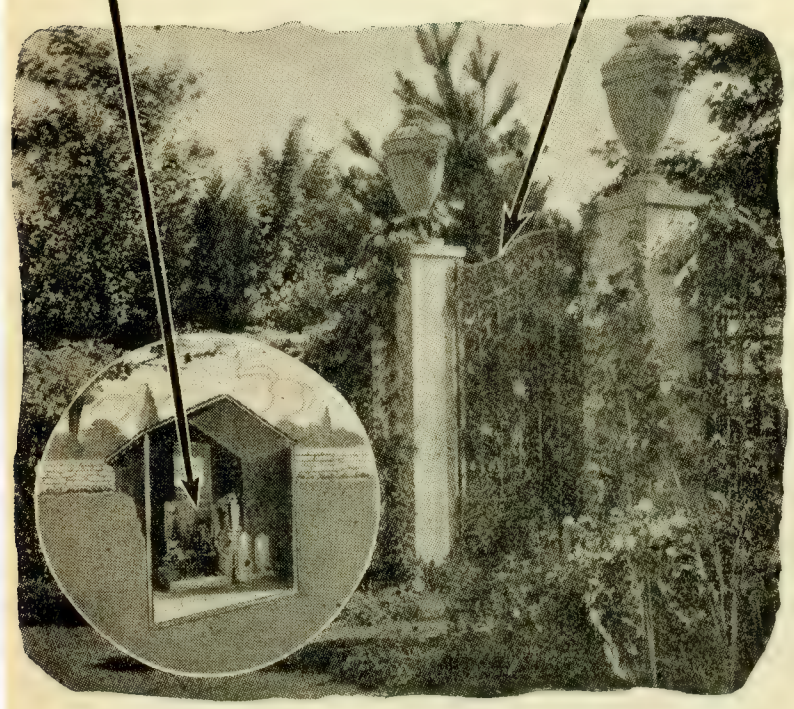
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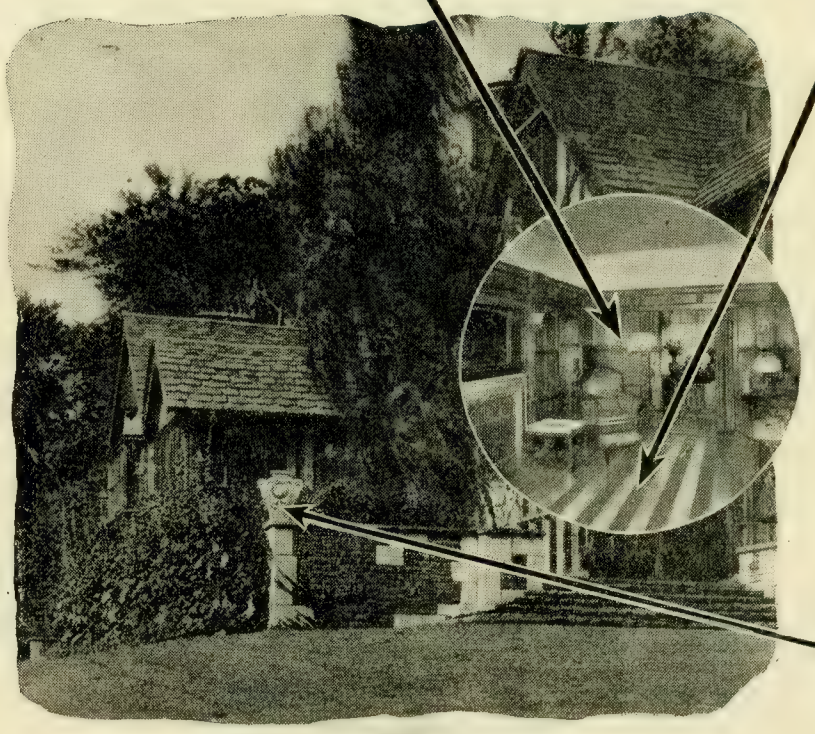
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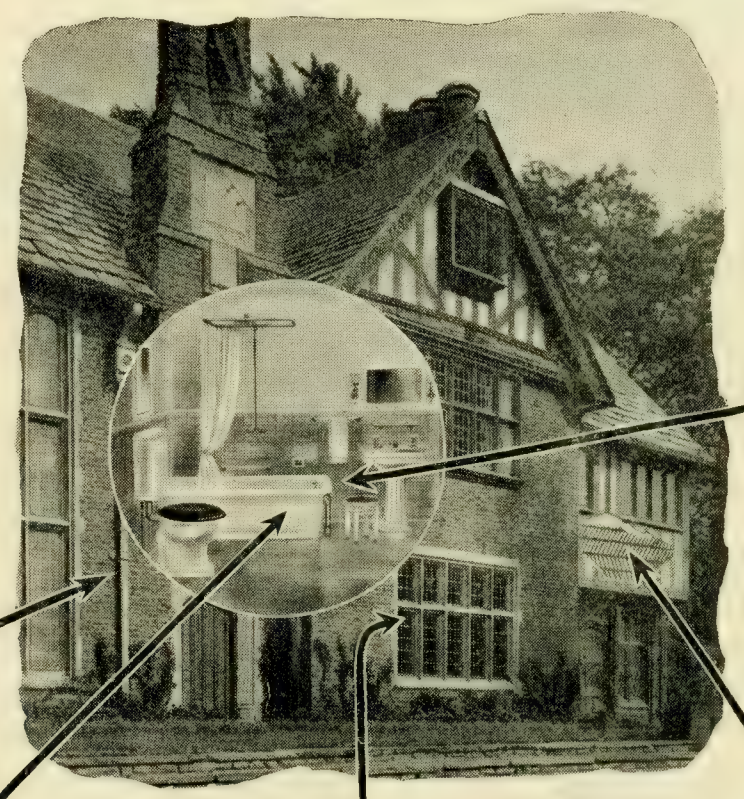
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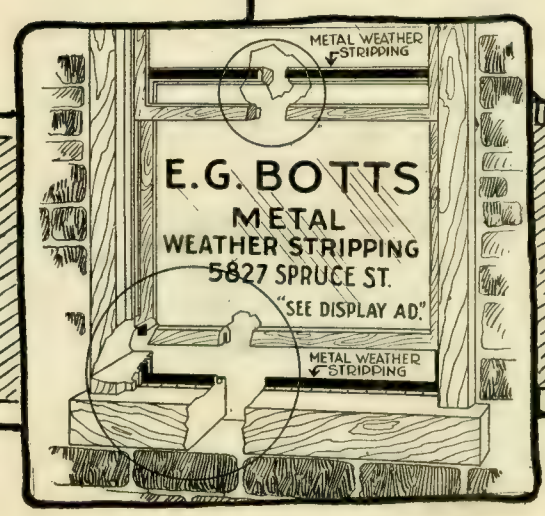












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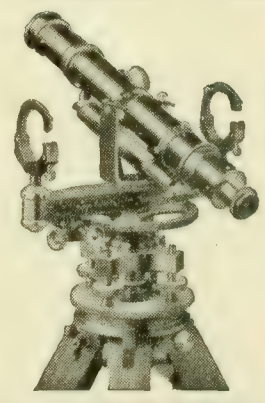
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vate plans. Owner, R. M. Titus, 120 East Cumberland street, Philadelphia. Brick, 1 story, 17x32 feet and 36x32 feet, slag roof, cement floors. Contract awarded to Girard Underpinning and Const. Co., 1304 Walnut street, Philadelphia.

Building (alts.), 1117 Arch street, Philadelphia. Architect, Samuel Y. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading R. R. Co., Reading Terminal, Philadelphia. Changing record room into electric sub-station, concrete work, steel and iron work, terra cotta partitions, painting, steel sash, hardware, steel doors. Contract awarded to Chas. C. Pace, Merion, Pa.

Toilet Addition, Front and Canal streets, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Immaculate Conception R. C. Church, on premises. Brick and steel, 2 stories, 17x10 feet, slag roof, terrazzo floors, hollow metal skylights, stone foundations (plumbing reserved). Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

Pennsylvania Construction News

Residences (35), York, Pa. Architects, Scott & Prescott, 34 E. Twenty-third street, New York, N. Y. Owners, Pennsylvania Textile Co., York, Pa. Brick, 2 stories, 18x30 feet, slag roof, pine floors. Plans completed.

Checking Station, York, Pa. Architect,. Edw. Leber, Hay Building, York, Pa. Owner, York Agricultural Society, Mr. Heckert, secretary, York, Pa. Frame, 1 story, 24x52 feet, shingle roof, pine floors, electric light. Architect taking bids due July 24th. Hess & Gilbert, York, Pa., are figuring.

Transforming Station (2), Hanover Trolley Line, York, Pa. Architect, Edw. Leber, Hay Building, York, Pa. Owner, York Railway Co., L. C. Mayer, York, Pa. Brick, 1 story, 24x24 feet, Barrett roof, concrete floors, electric lighting. Owners will build.

Hotel, Bethlehem, Pa., $700,000. Architects selected, Ritter & Shay, North American Building, Philadelphia. Owner, Chamber of Commerce, Bethlehem, Pa. Brick, stone, steel and concrete, 10 stories, 116x120 feet, stone foundations, steam heating, electric lighting, tile and marble work, hollow tile, metal lath, elevators. Plans in progress.

Manufacturing Building and Office, Sixth and Willow streets, Reading, Pa. Architects, Gerhard Bros., 619 Penn street, Reading, Pa. Owners, Reading Hardware Co., on premises. Brick, mill construction, 4 stories, 125x73 feet, 39x110 feet, stone foundations, composition roof, plank floors, electric light, elevators, hollow metal sash, kalamein doors. Owner and architect will sublet.

Garage, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, A. Brehmer, Schuylkill avenue and Hollenback street, Reading. Brick and concrete, 1 story, 36x57 feet, composition roof, concrete floors, electric lighting. Owner will build.

Residence (alts.) to Storage Building, Reading, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, William Fix & Sons, Eighth and Walnut streets, Reading, Pa. Iron work, new partitions, plumbing, steam heating, interior alterations. Plans in progress.

Residences (10 twin), Silver Creek P. O., Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Alliance Coal Mining Co., on premises. Bishopric lath, 2 stories, 20x36 feet and 28x20 feet, composition roof, pine floors, electric light. Architect ready for bids.

Bank Building, Bethayres, Pa. Architect, Thomas B. Lippincott, 10 South Eighteenth

street, Philadelphia. Owners, Huntingdon Valley Trust Co., Bethayres, Pa. Plaster and steel, 1 story, 43x31 feet, stone foundations, composition and pine floors, metal lath, marble work, ornamental iron work. Architect taking bids due July 28th. Specht & Sperry, Heed Building; W. J. Ryder, 418 Perry Building; Tourison & Tourison, 1011 Chestnut street; E. Allen Reeves, Abington, Pa.; Charles Pendleton, Bryn Athyn, Pa.; Russell Fesmire, Huntingdon Valley, Pa.; Harry Murphy, Willow Grove, Pa.; W. John Stevens, Inc., Wyncote, Pa., and R. H. Scroggins, Chester, Pa., are figuring.

Church, Upper Darby Township, Delaware County, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, Methodist Episcopal City Mission and Church Extension Society, care of Rev. John Watchorn, Seventeenth and Arch streets, Philadelphia. Preliminary sketches being drawn. Too early for detail.

Passenger and Freight Station, Shamrock, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Frame, 1 story, 20x45 feet, slate roof, stone foundations. Owners taking bids due July 24th. Charles C. Pace, Merion, Pa.; H. E. Baton, 1713 Sansom street; F. A. Havens & Co., 845 North Nineteenth street; Roydhouse-Arey Co., 112 North Broad street; A. L. Carhart, Penfield Building, and Brown King Const. Co., Commercial Trust Building, Philadelphia, are figuring.

Bungalow, Melrose Park, Pa. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner, L. H. Manko, 313 Arch street, Philadelphia. Hollow tile and stucco, 1½ stories, 30x46 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Plans in progress. Architect will be ready for bids in two weeks.

Residence (alts. and add.), Haverford, Pa. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owner, R. P. McNeely, Haverford, Pa. Brick and plaster, 2½ stories, slate roof, pine and oak floors, electric lighting, tile and marble work, hot water heating. Architect has received revised bids.

Extension Building No. 26, Riverside, Reading, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owner, Carpenter Steel Co., on premises. Brick, 1 story, 92x27 feet, composition roof, concrete floors, electric light, hollow metal sash. Architect has received bids.

Foundry (add.) and Hardening and Rumbling Bldg., Norristown, Pa. Architects, Lockwood-Greene Co., 101 Park avenue, New York City. Owners, Wildman Mfg. Co., Norristown, Pa. Reinforced concrete, brick and hollow tile, 1 story add., 40x65½ feet, and 2 stories, 38x74 feet, slag and asphalt roof, concrete floors, safety treads, waterproofing, iron work, fire doors, slate roof. Architects have received bids.

Bank (alts. and add.), Bryn Mawr, Pa. Architect, John T. Bright, Otis Building, Philadelphia. Associate architects, Thomas Bruce Boyd, Inc., 286 Fifth avenue, New York City. Owner, Bryn Mawr Trust Co., Bryn Mawr, Pa. General interior alterations, new fixtures, new entrance, etc. Plans in progress. Architects will take sub-bids.

Bank and Office Building, Sunbury, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owner, Sunbury Trust & Safe Deposit Co., Sunbury, Pa. Brick, stone and steel, 6 stories, 60x120 feet, slag roof, steam heating, electric lighting. Plans in progress.

Residence (alts. and add.), Bryn Mawr, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, Paxson Deeter, Land Title Building, Philadelphia. General alterations and additions. Plans in progress.

Building (alts.), Norristown, Pa. Architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owners, Times Publishing Co., Norristown, Pa. General alterations, new coal bunker. Plans in progress.

Hospital Elizabethtown, Pa. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owners, Masonic Home, Elizabethtown, Pa. Stone, 3 stories, "U" shaped, 250x100 feet, slate roof, steam heating, electric lighting, tile and marble work. Plans in progress. Will be ready for bids in about three weeks.

Residence (alts. and add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, R. Clark, care of architect. Brick, 2 stories, 20x25 feet, composition roof, pine and hardwood floors, electric light, tile and marble work, new plumbing, general interior alterations. Plans in progress.

School and Auditorium, Manheim Township, Lancaster County, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Manheim Township School Board, care of Elmer Espenshade, 1024 North Duke street, Lancaster, Pa. Brick, 1 story, 150x150 feet, concrete foundations, slag roof, hardwood floors, electric light, tile and marble work, hollow metal skylights, roof ventilators. Board taking bids, due July 27th. S. T. Snyder, Denver, Pa.; L. Wilson and D. S. Warfel, Lancaster, Pa., are figuring.

Bungalow, Honeybrook, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Henry Bucher, on premises. Frame and stucco, 1 story, 30x50 feet, concrete block foundations, pine floors, composition roof, pipeless heater, electric light. Will take bids August 1st.

Bungalow, Honeybrook, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Henry Bucher, on premises. Cement block, 1 story, 30x50 feet, composition roof, pine floors, pipeless heater, electric lighting. Will be ready for bids August 1st.

Apartment and Warehouse (alts. and add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, J. Pefheminger, North Penn street, Lancaster, Pa. Brick, 3 stories, slag roof, pine and cement floors, interior alterations. Architect will be ready for bids August 1st.

Hospital (add.), Nurses' Home and Service Building, Lancaster, Pa., $250,000. Architect, M. R. Evans, 10½ Orange street, Lancaster, Pa. Owners, Lancaster General Hospital, care of M. Brightener, Lancaster, Pa. Brick, 4, 2 and 2 stories and basement, 55x40 feet, 40x80 feet, and 50x84 feet, stone foundations, slate and slag roof, hardwood and tile floors, electric light, tile, marble and terrazzo work, elevators, rolled steel skylights, fire doors, roof ventilators, metal weatherstrips. Owners taking bids, due July 31st. S. H. Bawly and Herman Wohlsen, Lancaster, Pa., are figuring.

Residence, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Dr. Cowell, Dillsburg, Pa. Frame, 2 stories, 34x36 feet, shingle roof, hardwood floors, hot air heat, electric light. Plans in progress.

Church, Twenty-first and Derry streets, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Epworth M. E. Church, Rev. Knox, on premises. Stone, 1 story and basement, 73x73 feet, stone foundations, slate roof, pine floors, steam heat, electric light, tile work. Plans in progress.

Bath House, Harrisburg, Pa., $40,000. Architect, W. H. Manning, Boston, Mass. Associate architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owners, City of Harrisburg, care of City Commissioner Gross, Calder Building, Harrisburg, Pa. Reinforced concrete, 1 story, 160x32 feet, Spanish tile



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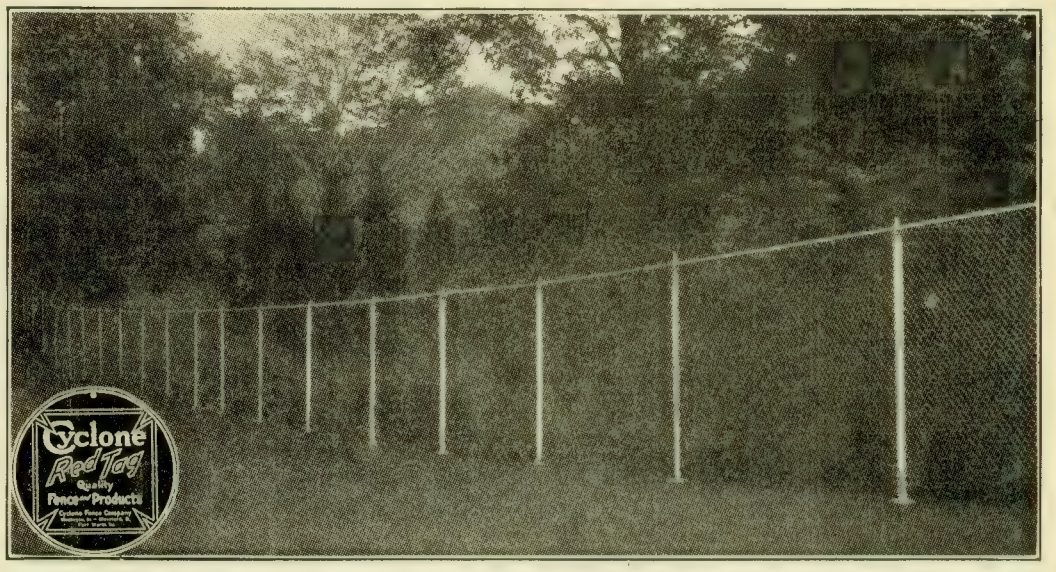
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roof, cement floors, electric light, plumbing. Committee ready for bids, due July 26th.

Garage, Current street, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, H. C. Winger, 1200 Wallace street, Harrisburg, Pa. Brick, 1 story, 117x20 feet, composition roof, concrete floors, electric light. Owner will take general bids.

Bank, Shermanstown, Pa. Architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owners, Shermanstown National Bank, Emery Ripp, chairman Building Committee, Shermanstown, Pa. Brick, limestone, 1 story, 30x50 feet, concrete foundations, composition roof, maple floors, steam heat, electric light, tile work, bank fixtures, roof ventilators. Architect taking bids, due July 28th. A. W. Hirtzler, Camp Hill, Pa.; John Barnhart, Camp Hill, and F. L. Morrow, Harrisburg, Pa., are figuring.

Residence (alts. and add.), Second and Hamilton streets, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Mr. Kusshel, on premises. Frame, 1 story, 20x36 feet, tin roof, steam heat, electric light, new plumbing, electric wiring. Owners ready for sub-bids.

PENNSYLVANIA
Contracts Awarded

Machine Shop, Carbondale, Pa. Architect, private plans. Owner, The Hendrick Mfg. Co., Carbondale, Pa. Brick and concrete, 2 stories, 75x150 feet, slag roof, cement floors, steam heating. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

School, Willow Grove, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Upper Moreland School District, Willow Grove, Pa. Brick and hollow tile, 1 story, 147x54 feet, wing 78x40 feet, slate roof, pine and composition floors, stone foundations, steam heating, electric lighting, plumbing, ventilators. Contract awarded to Harry Murphy, Willow Grove, Pa.

Farm House (alts.), near Churchville, Pa. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, name withheld. General interior alterations, porch addition, water supply system, hot water heating, electric lighting, plumbing, tile work. Contract awarded to Frank E. Heston, Churchville, Pa.

Church (alts.) and Parsonage, Main street, Darby, Pa. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Mt. Zion Methodist Episcopal Church, Darby, Pa. Brick, 2 stories, 10x46 feet, slag roof, pine floors, stone foundations, electric lighting, tile work, iron work. Contract awarded to Milton Staley, Darby, Pa.

Residence, Lititz, Pa. Architect, E. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Moore, care of architect. Brick, 2 stories, hardwood floors, electric lighting, marble work. Contract awarded to Hershey Leyman, Lititz, Pa.

NEW JERSEY
Construction News

Building No. 12-A, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, Victor Talking Machine Co., Camden, N. J. Steel, concrete, stone and brick. Plans about completed. Will take bids in about ten days.

School Building, Collingswood (Narberth Terrace), N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Board of Education, Narberth Terrace, Collingswood, N. J. Brick, 1 story, size undecided, slate or shingle roof, pine floors, hot

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air heating, electric lighting. Plans in progress. Will be ready for bids in two weeks.

Church (alts. and add.), Pitman, N. J. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Methodist Episcopal Church, Pitman, N. J. Frame, 1 story, 38x75 feet, shingle roof, pine floors, stone foundations, steam heating, electric lighting, ornamental iron work, plastering, painting, plumbing, sheet metal work, carpentry and mill work. Architect taking bids due July 29th. F. B. Davis, 240 North Sixteenth street; Hogg Const. Co., Denckla Building, Philadelphia; W. A. Lacy, Pitman, N. J.; H. Hoffman, Pitman ,N. J., and W. A. Adamson, Paulsboro, N. J., are figuring.

Store and Bachelors' Apartments, 5 South Penn avenue, Atlantic City, N. J. Architect, Wm. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, M. Rosenbaum, care of architect. Brick, 3 stories, 17x60 feet, slag roof, pine floors, stone foundations, hot water heat, electric lighting, iron work. Architect taking revised bids, due as soon as possible. Lam Building Co., 1001 Wood street, Philadelphia, is figuring.

Miscellaneous Construction News

Residence, Elmira, N. Y. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Lauren E. Bishop, Elmira, N. Y. Hollow tile and stucco, 2 stories, 35x45 feet, shingle roof, hardwood and pine floors, stone foundations, hot water heating, electric light, tile work. Owner is taking bids.

Church, St. Pierre, Martinique. Architect, Guy King, 1513 Walnut street, Philadelphia. Owners, Catholic Church of St. Pierre, care of Father Duffy. Coconio rock, tile roof, tile floors, stained glass windows, church furnishings. Plans completed. Owners will build.

School, Silver Run, Md. Architects, Markley & Starr, Spooner Building, Harrisburg, Pa. Owners, Board of Education of Carroll County, Md., care of architects. Tile, 1 story, 100x120 feet, stone foundations, slag and slate roof, pine floors, vapor heating, electric lighting, rolled steel skylights, roof ventilators. Contract awarded to Israel Cross, Silver Run, Md.

Building, Boaz, Ala. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, John H. Snead Seminary, Boaz, Ala. Brick, 2 stories, 100x200 feet, slate roof, electric lighting, steam heating. Contract awarded to Inglenook Const. Co., Burlington, Ala.

Proposals

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 14, 1920. Sealed Proposals will be opened in this office at 3 P. M., August 5, 1920, for remodeling in the United States Post Office building at Jersey City, N. J. Drawings and specifications may be obtained from the Custodian of the building at Jersey City, N. J., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

AS THE EDITOR SEES IT

(Continued from Page 660)

which will allow it to be rented or sold without a loss. In order to house decently the present population of the United States from ten to twenty billions of dollars will have to be expended. Private initiative for this purpose has entirely broken down and the home, one of the main reasons for the existence of industry in any form, is and has been for many years practically unattainable for a constantly increasing portion of the human race. By what right do we spend our time in debating the case for industry or the buildings which shelter it when the only motives for its establishment are in default?

A HOUSING PROGRAM.

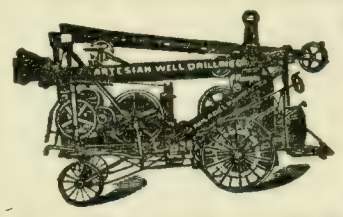
The manufacture for profit of the skilled wage earner's home, never sufficient in quantity or quality, has now ceased.

The manufacture for profit of the unskilled wage earner's home has, largely speaking, never existed.

In view of these facts, we, the architects, propose that housing for those earning low wages or salaries be legalized as a public utility; that the manufacture of this class of homes as a profitable in-

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dustry should cease in theory as it has already ceased in fact, and that the government, national and local, should at once adopt measures making possible the supply of this prime necessary of life.

The Economic Program.

Eventually industry must be so organized that the opportunity will be afforded to all those engaged in it to earn their living in the full sense of the word, but under the present circumstances we believe that we have indicated the one possible course of action. This program does not avoid the loss. Only in special cases will it be met by private interests, and then only when it can be collected from the profits of production. The capital will have to be supplied from the public purse and the loss will be met by the difference between the interest charged and the market rate or by an undisguised subsidy or by both. There is no escape from this dilemma other than by a complete change in the capitalistic society, and that, of course, is not here advocated. The principle of remunerated service as opposed to speculative profit must be the cornerstone of the edifice. Even State aid will break down if the value which it creates is constantly dissipated. It is not pretended that we are offering any detailed scheme of operation. We are now contending for a principle and at the proper time we stand ready to assist in its realization. We submit that whenever our system of business for profit fails to provide any of the basic necessities of life, then the task, ipsfacto, should devolve upon the public authority; that while the principle is now accepted for public education, water supply, etc., it must be extended to housing. A refusal to meet the obligation will spell disaster to society as it is now organized.

Such a building program, vigorously pursued, would occupy the energies of the construction industry for years to come and would mean the creation of durable wealth at a rate not hitherto attained in our country.

Loss of Wealth.

Construction is wealth, and like all wealth, is consumable in a degree. Its disappearance, due to obsolescence, unsuitability, disintegration, fire, neglect or any other cause, is, therefore, loss to the community. In proportion as the production of wealth is sacrificed to the making of a profit, the durability of that wealth decreases. When consumed it has to be re-created. It is a duplication of effort. The problem is to determine what part of this annual loss is preventable and then to take measures to overcome it. What part of our building program is considered from the viewpoint of an addition to the national wealth and what part is frankly designed for the sole purpose of making a profit? The true answer to these questions will show that the element of service has been obscured by the desire to reap a personal reward to a point where the drag upon our national resources fills us with apprehension.

The Necessity of the Planning of Cities.

But it is not enough that houses shall be merely built. It must not be forgotten that in erecting homes, factories and shops, we are creating towns and cities and to proceed on the old selfishly thoughtless or thoughtfully selfish lines will only increase urban congestion, and in the end magnify rather than diminish our troubles. In the execution of any such scheme as we propose, we must strive to see clear through to the end, in order to lighten, if possible, some part of humanity's unnecessary burden.

The slightest reflection will lead to the conviction that a more thoughtful placing of buildings will diminish the waste factors of obsolescence and unsuitability. Indeed, the advantage of scientifically planning our building development once admitted, our group is prepared to submit documentary evidence that the losses due to the planless accretion of our cities and transportation facilities represent an annual loss of hundreds of millions of dollars. This loss bears with crushing weight upon the construction industry, for no enterprise can be healthy when so much of its effort is uneconomic.

The Planning of Cities and Lines of Communication.

An answer to our special problem cannot be found without examining the physical structure of our cities and their connecting transportation lines of every character, for these things are construction itself, and it is only by planning them definitely and scientifically and building them honestly that there is any hope of diminishing the present alarming waste of human effort and capital.

A Survey.

The placing of buildings and the layout of our transportation lines is a matter of growth, planless in the sense of any correlation of the part to the entirety, but rigidly controlled by the underlying philosophy of modern business enterprise, the making of a profit. Now this policy has generally been accepted as sound, as a conservative and prudent development of "natural tendencies," but it has led directly to the most uneconomic, the most wasteful scheme of life ever devised.

To increase in size is the major ambition of our cities and is an aspiration to which all others are subsidiary. With few exceptions, city plans are based upon the conception of unlimited inflation and permission to study methods by which urban life may be made more tolerable is only granted upon the well understood condition that nothing is to be done looking towards the elimination of the selfsame causes that have made urban life so hard to support. No wonder that city planning is largely futile.

The theory is founded upon a negation, the desire to do nothing which will decrease the value of urban land. The theory is positive in that it guards jealously the supposed right of the individual to reap a speculative profit on land. It operates to increase concentration at the center and diffusion at the perimeter, both tendencies pursued to a point where, after a certain size is reached, the city becomes an economic impossibility. And here is where we now are. Due to these and other causes, it has grown to a degree of immensity which makes impossible the financing of its public utilities. The universal predicament of street railways is an illustration. But in their special case there are difficulties which complicate the financial problem, for by reason of the great distances to be covered and the enormous number of passengers to be transported, they can be operated only at the cost of infinitet discomfort to the public.

Distributtion of Values.

The conception of the modern city is based upon fundamentally wrong economics and contains the seeds of its own destruction. Any system of economics which takes and does not return, any systetm of agriculture which, having produced the crops, takes no measures to restore the fertility of the soil, any system of physics or philosophy which allows the appropriation of energy generated by effort and takes no measures to cancel the debt is destined to exhaustion just as surely as is a constantly worked coal mine. The value created by the community belongs to it, and when diverted to individual use, results in public bankruptcy. In violation of this law of nature, the increment, loosely and deceptively qualified by the word "unearned," is partitioned amongst the few and the powerful to the despair and impoverishment of mankind.

To expect the construction industry to be possessed of a healthful life in such

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an atmosphere is unreasonable. It is suffering from the very situation which it is employed to create.

There can be no way out until the principle of public service receives recognition as a practical working force—until business for private profit is brought within reasonable bounds — until our cities are restored to en economic form and size, a quite possible thing to accomplish—until our lines of communication and their terminals are planned for the service to be rendered, and not only for a money return.

If the objective seems to be beyond our reach, it is principally because we have never made any serious, concerted effort to attain it.

Folsom & Stanton, architects, formerly of 1328 Walnut street, have opened offices in the Fuller Building, at 10 South Eighteenth street, Philadelphia. The telephone number is Spruce 2318.

LABOR IN PHILADELPHIA BUILDING TRADES TAKES ADVANCED ACTION

Request Architect to Act as Counsellor and Leader in Movement for Co-operation in Building Industry.

The council of the Allied Building Trades, representing nineteen different labor unions in the American Federation of Labor, at a meeting of its Executive Committee last week, took a step destined perhaps, to be epoch making not only locally but nationally. Action which has been pending to request D. Knickerbacker Boyd, former Secretary and Vice-President of the American Institute of Architects, as well as a leader in Local Construction and City Planning movements, to act as spokesman for Labor in all local affairs, was formally ratified.

Discussion on the part of all delegates present at the meeting emphazed the fact that the greatest lack of co-operation and co-ordination exists in the Building Construction field today. It was pointed out that continual strife between the employer and the employed seemed to be no nearer termination than before,—in fact was bordering on a breach, and that in the face of all this unrest, meetings were held by Employers' Organizations and Labor Organizations, always separately. Opportunity seemed to be lacking and the spirit not present for these organizations to get together and thrash out difficulties or possible methods of adjustment and arrive at amicable understandings.

The representatives contended that labor acted alone because it had to. Through lack of opportunity for contact with any one central organization of employers or even with various separate organizations, the meetings of Labor were not fraught with the full idea of service as it was deemed they would be, were opportunities offered for joint meetings with all concerned in the building industry. With respect to meetings of Manufacturers, and other employers, labor, it would seem, had not been consulted in matters which were obviously of mutual concern and affected the public welfare.

Such for instance, it was mentioned, were the meetings of the Committee on Industrial Relations of the Philadelphia Chamber of Commerce, which had been holding frequent conferences and framing declarations of principle, affecting employers' relations with labor and without ever a word from Labor on the subject.

Representatives of the Bricklayers' Union explained what strides had been made in that Industry in but one short season through simple human understanding, brought about by contact with all factors in that branch of the Building Industry. Mr. William J. Haggerty explained how this had originated through the interest shown by D. Knickerbacker Boyd, a former President of the Philadelphia Chapter of the American Institute of Architects, now Chairman of the Chapter's Committee on Education in the Crafts and Trades, a member of the Board of Directors of the Engineer's Club and connected with many other local and national organizations. This followed an address which Mr. Boyd gave before the Council of the Allied Building Trades last autumn, at which he urged that Labor should devote a larger portion of its meetings to matters of Education and Information and that meetings of Organized Labor should concern themselves with improvements in the various Crafts and Trades and that discussions of wages and hours should give way to discussions of opportunity for co-operation with all others and service to the public at large.

This work, begun in the Allied Building Trades Council, led to conferences between several of the Industries and architects and others, notably in the case of the Bricklayers' Union No. 1, which requested a conference with Mr. Boyd and other architects at which were present C. C. Zantzinger, John I. Bright, M. B. Medary,Jr., Horace Wells Sellers and Victor D. Abel. A committee on education was formed in the Bricklayers' Union, consisting of James O'Neill, Chairman; F. X. Sullivan and William J. Haggerty. This led to the formation of a Class in "Plan Reading" which was conducted by Mr. Abel, of the Architectural firm of Boyd, Abel & Gugert. At every weekly meeting of the Union, during the past winter, addresses were given by men prominent in City, State and Nation. These included speakers from the University of Pennsylvania, the U.S. Bureau of Standards, the Philadelphia Board of Education, the Master Builders' Exchange and the Local Brick Manufacturers' Association.

All this it was pointed out, had the effect of awakening in every workingman a greater interest in his daily task, had made him more efficient, more appreciative of the aims and ideals of the designers and occupants of buildings and in all, a better citizen.

These results were ascribed almost wholly to the spirit which had been aroused by co-operation and human contact. Arguments were advanced to prove that similiar results could be expected in each branch of the Building Industry and conditions improved in each if the employers' organizations could be brought face to face with the fact that they too had obligations to fulfill toward Labor as well as those which Labor organizations were expected to recognize towards employers, and each toward the public at large.

In view of these facts and that it was considered, as far as the Building Industries was concerned, that architects represented the consumer, the building public, in a way approached by no other trade, business or profession, it was determined that the building branch of Labor should place its confidence in a representative of the Architectural Profession to bring building labor, into contact with all builders, contractors, and others, and eventually all into a closer relation with the Building Public.

Without a dissenting vote, it was decided that D. Knickerbacker Boyd should be accorded this confidence and asked to be the representative of Organized Labor in Philadelphia; and he has been requested so to act. He has been officially notified of his selection to this important and unusual post and his acceptance has been urged.

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It is the intention of Labor to have him head a committee of nine—four members of which have already been appointed by the Council. These members are William J. Haggerty, James M. Myles, A. G. Haws, President of the Council, and Daniel T. McKenna, Secretary of the Council.

In addition to this unprecedented confidence, reposed in a single individual outside of Labor's ranks, Mr. Boyd has been given full authority to select the other four members of the Committee and to act meanwhile as Labor's spokesman before any organization of Builders, Contractors, Material Men, the Chamber of Commerce and other bodies.

Mr. Boyd has the matter under advisement and is conferring with all interests above mentioned as to the personnel of the four members of the committee. Such a committee in co-operation with the Committee headed by Mr. J. V. Irwin, of Irwin and Leighton, and any other officially designated Committee, may conceivably and perhaps promptly function as a Tribunal in the Building Industries, which, it is understood, Labor would favor, and should be considered by both employer and employed, in the light of a Supreme Court to determine all matters of policy in the important industry of Building Construction.

Is it not high time that some action looking toward co-operation such as this should be put under way? And is it predicting too much to say that with Labor stabilized in the construction field materials would follow and the way be opened for progress so highly to be desired in overcoming the shortage of buildings of all types, notably houses and industrial establishments?

AN ENGINEERING ANALYSIS OF THE LABOR PROBLEM

BY CALVERT T. TOWNLEY

*President of the American Institute of Electrical Engineers**

To begin with the first law of nature is self preservation. It is manifested in its highest form as patriotism, in its lowest as sordid greed. Between these two extremes appear all forms of selfishness, many of them by no means blameworthy, others under control or not infrequently dormant but nevertheless certain to manifest themselves when circumstances compel. For example, selfishness is the actuating motive in barter. It leads the seller to try to sell at the highest price and the buyer to try to buy at the lowest. Barter and trade are at the foundation of industry and having been always recognized as essential to prosperity, have been encouraged and protected. This form of selfishness has acquired great respectability, but while the practice of matching wits in trade is supported by the people of all lands, the sanctity of contract is also fundamental, i. e., that form of selfishness which leads to the violation of an agreement once made is everywhere decried and condemmed. It has been demonstrated that selfish human nature will assert itself and that good faith cannot be relied upon, therefore recourse has been had to another powerful trait—fear. The exercise of the police power with its penalties for transgression is based on fear of the consse-quences.

The ideal condition for barter is where both parties are absolutely free agents and neither therefore under duress. Although such a condition is seldom realized, when the duress becomes so extreme as to constitute oppression the desperation of the oppressed may be counted upon to devise resistance. Just as surely as political oppression has throughout all history led to political revolutions so has commercial oppression caused commercial revolution. Too great power, if continued long enough, will always be abused, and just as such power in government becomes tyranny, similarly too great advantage in barter begets commercial r o b b e r y. These statements sound like platitudes, and I should hesitate to repeat them were it not for the fact that they not only bear directly on the present situation between labor, capital and the public, but seem to be so frequently forgotten and ignored. Please remember that I am not blaming or praising any one. I am trying to recite cold facts and to call things by their right names.

In the time honored barter between employer and employee, the employer formerly held the strategic position. If he refused to pay the wages demanded by any individual there was usually some one else willing to accept a lower rate and the unemployed one not being mobile and usually having to work to live was soon forced to yield. As business concerns grew larger this advantage naturally increased and just as naturally the employers' power was abused. Bye and bye the resulting oppression became sufficiently acute to provoke general resistance and the labor union came into being. Workmen banded together to eliminate competition among themselves. It should be noted that the establishment of unions did not suspend the operation of the law of supply and demand, rather did it allow the law freer play by counter balancing the power of the union against the previous strategic advantage of the employer. The effect was generally benefical because it corrected an evil, and the general public, while not particularly interested, looked on approvingly. But early in their history the unions made a serious although not a surprising blunder. They set up a system of contracts between employer and employee and, because they could not escape doing so provided no means by which the workmen could be penalized for violation, except by the union itself. This flagrant flouting of a fundamental did not for a time have any serious effect but the blunder once made was never thereafter corrected and it is probable that even today it would be difficult to find a labor leader who could be made to see the seriousness of this mistake, much less to endeavor to rectify it. I pass quickly over a long period of years after the first organization of unions during which unionism had its ups and downs and came to be regarded, if not with equanimity, at least with tolerance by the employer class, and come to the recent world war.

Here an entirely new condition was created—an imperative demand for men came up almost over night. It simply had to be satisfied at no matter what price. At the same time not only was the supply diminished by those required for the armed forces but immigration stopped as well. The effect on the price of labor was axiomatic—it rose. The unions being the vehicles through which the demands of many classes of workmen could most readily be expressed at once became active. The law of supply and demand was fighting on their side and they made the most of it. Wages and prices rose to hitherto unheard of figures. Labor had too much power; their demands had to be met whether or no and of course they abused their power. Then the unions made another mistake. They credited too much of their successes to their organization and failed to appreciate the part played by the law of supply and demand, also they underestimated the power of resistance which would be engendered by oppression. In their turn they became the oppressors—insistent, arrogant. Where their principal weapon —the strike—was not effective as against the employer class in one industry, they enlisted the workmen in other industries and who had no grievance, in sympathetic strikes. They asserted their power to dominate the public convenience, safety

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and health in order to coerce their opponents into submission to their will. Were it necessary I could recite many specific instances to prove this fact but I assume it to be so generally known and accepted that a recital would be superfluous.

Now this is the condition today and is one which has caused much grave concern and has produced many strange ideas. We hear that a new order of things has come to pass; that the "rights" of labor must now be respected; that the workmen will hereafter have a greater share of the products of his toil; that he must share in the management of industry and have a recognized place in government and the like. To my mind, the facts warrant none of these assumptions. There is no new order—economic laws are the same as they always have been. They are as ruthless and as inexorable as are the laws of physics. Neither has human nature changed. The unions are in the saddle but to use a hunting expression, they are riding for a fall. Please let me remind you again that I am not blaming the unions—or any one else. I am trying to confine myself to statements of fact and to logical opinions based thereon according to the precept and training of the engineer. Suppose we analyze the fundamentals.

In our system of government where every man can vote and have his vote counted and with our multitudes of newspapers informing everybody what is going on, there is little chance that a condition can arise such as that of China, or of Russia, or even of Germany. Further, while we talk a great deal of politicans and parties, we know that on any really vital question the people are going to make up their minds themselves and will elect men who will carry out the wishes of the majority. In other words, the great majority rules.

The number of workmen in labor unions is variously estimated to be from 10 to 40 per cent of the men employed in trades where there are unions. These figures represent the extreme claims of the contending parties. We shall probably not be far wrong if we take a compromise figure say 20 per cent. In the largest class of all, the farmer, there are no unions and similarly none in many other avocations, so if we consider the total voting strength of the country, the percentage of men in unions is certainly not over 10 per cent. and probably not over 5 per cent. Of this small proportion a few are the leaders, a larger number enthusiastic followers, and the great majority largely governed by conditions. By that I mean they are loyal unionists when the union is succeeding but desert on small provocation when it is defeated. This is almost obviously true because the workmen are banded together to accomplish selfish purposes and no other. The individual workman cares no more for his fellow as a class than does the employer. It follows, therefore, that a union must continue to succeed or it will disintegrate and disappear. The history of the last thirty years has recorded many once powerful unions, even the names of which are now almost forgotten. The "Knights of Labor" and the "Amalgamated Associations of Iron and Steel Workers" are two examples which illustrate this point. The strength of organization contending against the mob is very great and it is probably true that so small a proportion of 10 per cent or even of 5 would prevail under these conditions. That in fact is the situation confronting the nation to-day.

This small organized percentage supported by the operation of the law of supply and demand has prevailed, but looking into the future it seems clear that there is only needed a sufficient incentive to induce the unorganized 95 per cent, or even a small part of them, to get together in opposition to the 5 per cent in order that the latter may be overwhelmed. This incentive has been or will be furnished by union oppression. I say "has been or will be" because the abuse of too great power always grows. Therefore if the unions shall still continue to gain their ends even in the face of their present insolence and ruthless disregard of others, their arrogance and self-confidence, born of such success, will inevitably lead them on to acts of greater and yet greater oppression until they force their opponents to combine against them for defense or even for self-preservation. The moneyed class never has had and probably never will have much sympathy or co-operation from the general public for the very obvious reason that the general public is jealous of them. Sympathy goes naturally to those who are worse off. The moneyed class being better off then the great majority, therefore come in for sympathy with a minus sign, that is, jealousy. An incentive which will induce the public to oppose the unions can therefore be sufficient only when the reason is strong enough to overcome this jealousy. That reason becomes sufficient when the need for self preservation is made clearly apparent. Already there are indications that the people will not much longer submit to dominations by the unions. The governor of Massachusetts defied them, was shortly thereafter re-elected by an abnormally large majority, and has now been nominated on the Republican national ticket for Vice-President, which later distinction, it is safe to say, he owes almost entirely to this incident. The state of Kansas has enacted a law to curb union interference with the peace and comfort of her citizens and her governor has become a popular national figure in consequence. The temper of much of the daily press has changed and where formerly there was much said about the so-called "living wage" and criticism of "capitalistic greed" there now appears articles about "the vicious cycle of mounting wages and costs," "loafing on the job." and the "need to teach the people thrift and economy." These and other signs are merely symptons of the incentive to resistance that may be expected to be superinduced by oppression The aroused public would not be just to the unions and an attack once thoroughly launched might be expected to go further than it should. However, I am not here discussing justice or how either party should behave, but rather what they have done in the past and under the pressure of human nature and economic laws most certainly will do in the future.

Whether or not an aroused public does curb union domination, the present high wage era will not be radically effected. That is a condition controlled not by the unions at all but by the law of supply and demand. Even the complete abolition of the unions, while it might check further wage increases and perhaps bring about some recessions, and while it would reduce living costs somewhat by cutting out interruptions and tend to increase production, would not itself either increase the supply of workmen available nor decrease the demand for their services. Indeed, while I have discussed the fundamentals of barter between the employer and the employee and have endeavored to show the natural reactions resulting from barter with either party under duress, it is not at all certain that conditions will become so extreme as to bring about the reaction described. That is to say, instead of the abuse of power by the unions being curbed by the organized oppression of other classes of our people it may be reduced or even thwarted by the operation of the law of supply and demand. Lest I may be misunderstood I might here state that because I have been confining

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myself to a discussion of the relations between employer and employee and have much to say about the employee's abnormally high wages, I do not want to be understood as giving that condition as the only cost of the prevailing high prices. Advantage has very generally been taken of the opportunity to increase profits by those who had wares to market, which is only another way of saying again that selfishness is a universal trait of which no class or classes has a monopoly. A bettering of conditions may be affected by a decrease in the demand for an increase in the supply of labor.

Already there is a marked reduction in the sales of certain products resulting from an unwillingness or the inability of many people to pay the exorbitant prices asked. Government reports of falling exports indicate that the expected lessening of the foreign market for our high priced products is approaching and it is not at all unlikely that this may be followed by heavy increases in our imports which will displace American made goods. This result may come about both because foreign nations are getting into their stride of production again and because the high prices prevailing here have naturally created an attractive market. A combination of these and other conditions will reduce the demand for our products and consequently for the workmen to produce them. The immigration authorities of the port of New York report their facilities overtaxed to handle the large numbers coming to our shores, and say that even those numbers would be far larger if there were only more ships to carry the people who want to come. It is natural to suppose that as the heavy burdens of after-war taxation are brought home to the foreign people an increasing percentage will seek to escape them by coming here to live and also that the gradual restoration of trans-Atlantic shipping to its normal schedules will afford the greater facilities thus demanded. This augmentation of population, largely workmen, of course will swell our supply and likewise tend to correct any shortage that may exist.

If my analysis of the fact is correct, it is clear that the present domination by organized labor is temporary and also that the era of high prices will pass. Therefore, no material permanent change in either our social order or in our industrial structure is to be anticipated. In the contest between brains and brawn, waged since the world began, brains have always won and brains always will. Free play for the natural forces of trade may be counted upon to exercise a beneficent influence and they should be hampered and interfered with by government restrictions as little as possible. We cannot, of course, determine from history or from any facts at hand, how long a time it will take for conditions to become normal again, but what we need now is clear thinking, courage and patience.

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*Address delivered before the annual convention of the American Institute of Electrical Engineers, White Sulphur Springs, W. Va., June 29, 1920.

PEP PARAGRAPHS

A hang-dog look never won a prize position.

The man who says, "I can," seldom is canned.

Catch a man off guard, and you've got him whipped.

One second at the right time is worth more than a thousand tomorrows.

It has been said that ignorance is bliss, but that doesn't apply to business.

Many a poor boob has lost out for no other reason than that he wasn't looking ahead.

Even a poor plan well carried out will net greater results than a jim dandy that fails to get support.

Low-brows match pennies because it requires little mental concentration; high-brows match wits for the opposite reason.

You can't tell what's in a man's head by looking at its shape any more than you can tell what's in a barn by looking at the door.

Trust a poor common dub who knows that he's not over-intelligent in preference to a really intelligent sap-head who's fully aware of his brilliancy.

Don't ask for a raise on the theory that the boss ought to give you more; make yourself worth more than you're getting, and then ask what you are worth.

Two ways of breaking a friendship: strike a man on the bean or touch his pocket-book. But for safety's sake, choose the lesser course, and leave his pocket-book alone.

(Copyright, 1920, by S. A. Chandler.)

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

Repitition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

"Camouflage" doesn't pay in advertising. Don't call your cannon a bit of landscape. Be honest and gain the confidence of the public.

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.

Many a man would do a better job if he didn't know about putty.—Ex.

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Nicholas, A. J., & Co.....Bulletin Bldg., Phila.
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ARTESIAN WELL PUMPS.
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Woodoleum Mfg. Co. .....133 Arch St., Phila.

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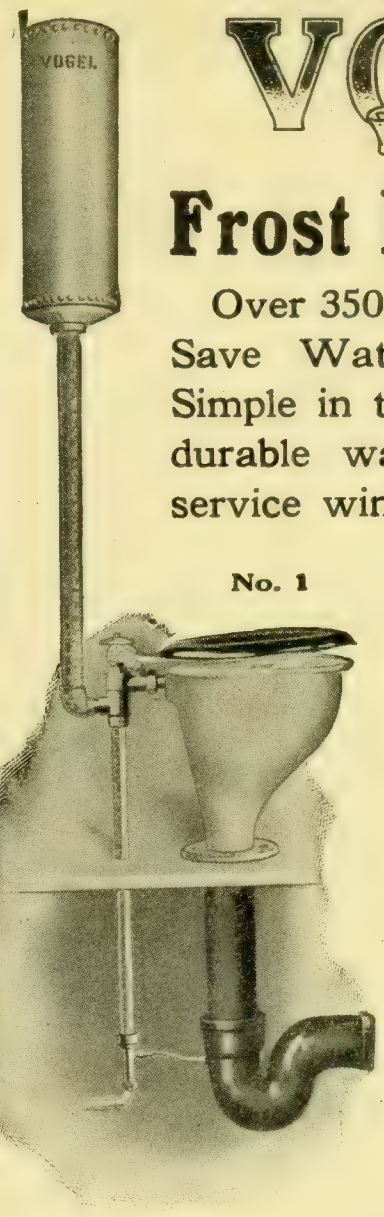
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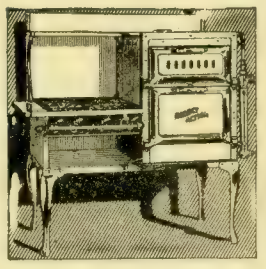


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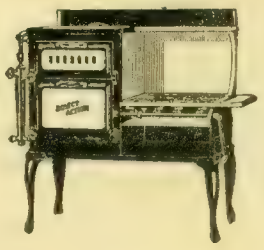
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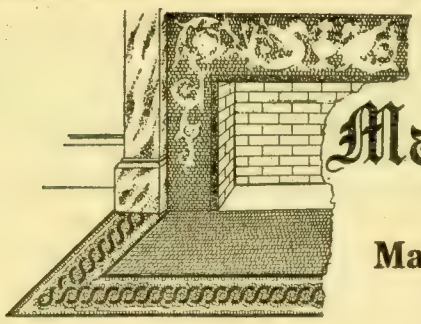
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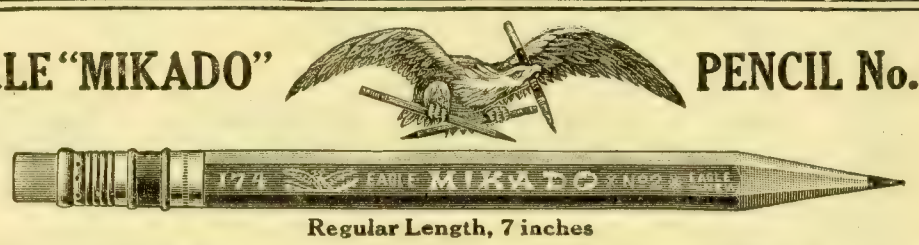
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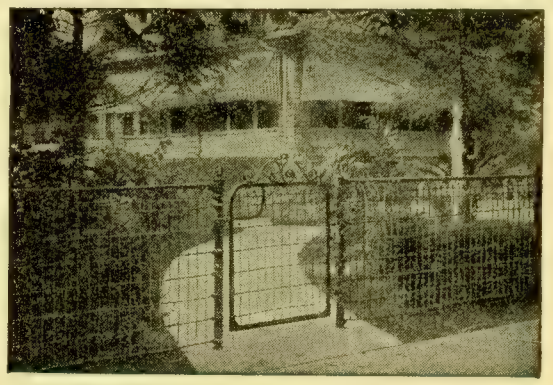
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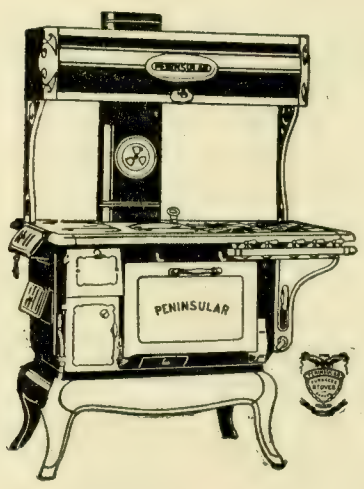
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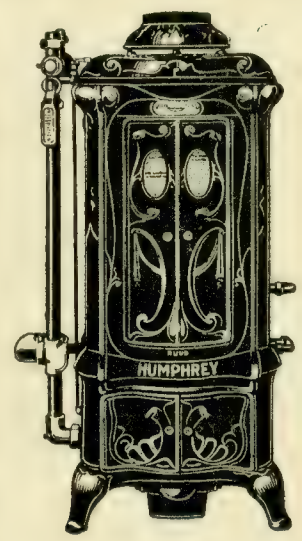
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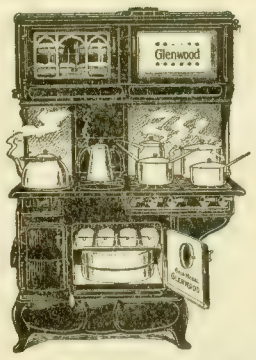
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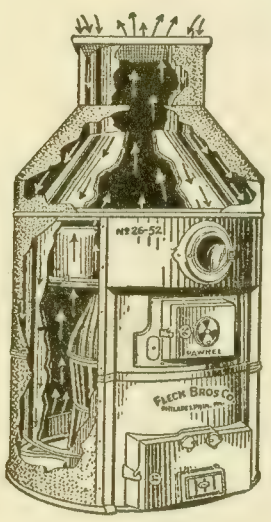


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BUILDERS' GUIDE

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As The Editor Sees It

WE can not see any reason for uncertainty as to the future af the construction industry. People must have homes, and with the curtailment of building during the war, there began a shortage in homes, which must be made up. The factors which are contributing to a temporary limitations of building must be disposed of, and and there is no doubt that the next five years will be the biggest that building has ever seen.

In a report recently prepared by the Fuller Industrial Engineering Corporation for the George A. Fuller Co., subsidiary of the United States Realty Co. is given a careful analysis of the situation.

"A great many manufacturers and property owners have written us," says the Fuller Corporation, "that they were considering new work, that they wanted to build a needed additional space, but hesitated to begin construction because building costs were so high. They have asked us 'when will building costs be lower?'"

"There are three conditions which might bring about a reduction in wages costs: 1. A reduction in demand. 2. A reduction in wages of labor. 3. A reduction in price of building materials.

"A reduction in the demand for additional construction is highly improbable, in view of the present shortage of building space which has resulted from a slowing down of commerical and industrial building during the period of the war.

"As to the hope of a reduction in building costs due to a reduction in wages paid to labor, it does not seem probable that the laboring man will be content to accept any reduction in the size of his pay envelope. His attitude is rather to force wages to higher planes.

"The hope of a reduction in the cost of building materials rests very largely on the hope of a reduction in wages, because, for every dollar spent for brick, cement or steel which goes into a building, from 85 to 90 per cent of such ultimately goes back to the laborer who dug the clay, mined the coal, burned the brick, ground the cement, rolled the steel and transported all of them over to the railroad lines to the site of the work and built them into the structure. Until these related wages go down therefore, it is not reasonable to expect any substantial reduction in the price of building materials.

The average of new building construction in the cities of the United States, from 1911 to 1919, inclusive, show the following:

	Cost of building constructed	Av. cost per sq. ft.	Sq. ft. built
1911..	$962,499,700	$1.59	605,300,000
1912..	1,027,515,200	1.63	630,400,000
1913..	980,971,600	1.61	609,300,000
1914..	891,845,500	1.55	575,400,000
1915..	931,937,300	1.52	613,100,000
1916..	1,137,160,900	1.82	624,800,000
1917..	816,941,000	2.27	358,500,000
1918..	492,163,900	2.65	185,700,000
1919..	1,467,821,300	3.20	458,600,000

"The low average cost per square foot of building constructed shown in the above table," says the Fuller Corporation "is due to the high percentage of floor space which consists of the cheapest kind of factory construction, amounting to little more than sheds. The average cost per square foot of modern factories of reinforced concrete, or other fireproof material, as well as of first class office buildings and hotels, is much higher, the range being from $3.50 to $10.50 per square foot, depending upon the character of structure and its locationi

"For the years of 1911 to 1914, inclusive, the estimated average amount of new buildings was equivalent to 605,000,000 square feet of floor space per annum. In 1918 less than one-third of this amount was done, and even in 1919, in spite of the large money expenditure, the amount of building done was 146,500,000 square feet below this figure. Hence, it is clear that ever since the end of 1916 the average building space has been running further and further behind requirements.

"Owing to the increase in population, at least 10 per cent more floor space is required to be built annually than before the war. Otherwise expressed, we ought

DRAWING MATERIALS

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to have built about 650,000,000 feet annually during the past three years, or 1,950,000,000 square feet in all. We actually built only about 1,002,800,000 square feet, and this leaves a shortage of 947,200,000 square feet. At the present time, we are building at the rate about 550,000,000 feet per annum.

"Thus we see that in order to make up during the presnt year the existing shortage of housing space we would have to construct dwellings, factories and offices having an aggregate floor space of about 1,597,200,000 square feet, or almost as much as we ever built in any three past years.

"It appears therefore, that we are about 18 to 21 months behind in our building program, and that the total amount of building operations during the few years must not only rise to the average normal yearly requirements but must exceed those requirements sufficiently to make up the shortage which accumulated during the past three years. With this shortage to be overcome, there is no likelihood of a decrease in building operations, but on the other hand there is every reason to expect an increasing demand for some years to come.

"As evidence of the volume of building which is done despite high prices, the Fuller Co. has now under constuction more than $32,000,000 worth of work contracted for since the first of the current year, which brings the total amount now on its books to over $60,000,000.

The following tabulation shows the increase in cost of materials and labor which had taken place to Jan. 1, 1920:

MATERIALS.

Common brick—$25.00 per m.; increase since 1913, 257 per cent.

Lumber—$58.00 per m. b. m; increase since 1913, 127 per cent.

Cement—$2.80 per bbl; increase since 1913, 77 per cent.

Sand—$1.25 per cu yd; increase since 1913, 150 per cent.

Structual steel—$79.40 per ton; increase since 1913, 87 per cent.

Hollow tile—$220.30 per m; an increase since 1913, 165 per cent.

Broken stone—$1.85 per cu yd; increase since 1913, 106 per cent.

Roofing felt—$84.00 per ton; increase since 1913, 155 per cent.

WAGES.

Bricklayers—$1.25 per hour; increase since 1907, 78 per cent.

Painters—$1.00 per hour; increase since 1907, 100 per cent.

Electricians—$1.00 per hour; increase since 1907, 100 per cent.

Plasterers—$1.06 per hour; increase since 1907, 56 per cent.

Carpenters—$1.00 per hour; increase since 1907, 60 per cent.

Plumbers and steamfitters—$1.00 per hour; increase since 1907, 78 per cent.

Laborers—$.75 per hour; increase since 1907, 329 per cent.

Sheet metal workers—$1.00 per hour; increase since 1907, 78 per cent.

"That this increase is by no means at an end is evidenced by the increase in prices of these materials since Jan. 1, 1920. In New York the price of brick has risen from $25 to $33 per thousand; lumber from $58 to $72 per thousand feet, board measure; steel from $95 to $135 per ton; and other materials in like manner."

The great need for more homes is reflected in the lengths to which people have been driven to protect themselves from profiteering landlords, and we are told in the "Evening Bulletin", Philadelphia that:

The housing problem still exists and that Borough President Curran, of Manhattan, has asked Governor Smith to call a special session of the New York Legislature to consider the housing problem of New York City, with a specific suggestion of a constitutional amendment permitting the city of New York to enage in municipal homebuilding. Senator Lockwood who has been foremost in studying the housing problem, also asks a legislative opportunity for a general study of the situation.

The advanced code of rent laws passed by the last Legislature has not failed completely. It has provided a means of adjustment in many thousands of rent disputes, undoubtedly has prevented thousands of summary eviction, and has given greater protection to tenants. But means of evasion has been found, and, withal, it has not resulted in the construction of more homes, which is the prime need and the only true or permanent remedy for the situation.

Philadelphia watches the New York experiment with interest. Its own problem continues, practically unchanged. The summer season affords a temporary relief, but with the return from country and shore in September there is likely to be a recurrence of the experiences of last year, with perhaps an actual shortage more serious than that experienced then. Home-building is not keeping pace with the natural increase in families, and the advance in rents is going on, although the family incomes are not increasing, and commodity prices in general are recognizing the evitable necessity of deflation and are coming down.

There is likely to be an urgent appeal to the next Leislature, when it shall meet, to take effective action. Such an appeal is likely to be in the direction of so-called "rent laws" for the curbing of the profiteer landlord, and for the closer limitation of the right of eviction, as well as for the modification of the form of leases to make the supposed rights of tenants more effective.

But these are only passing forms of relief, and Pennsylvania is likely to follow the experience of New York in ultimately facing the question of securing more home-building, whether by direct action on the part of the State or the municipality, or in relief of home-building capital from some part of its tax-burden.

SOUND-PROOF ROOMS FOR BABIES IN THEATRES

The Park moving picture theatre, now being constructed at Austin, Minn., contains the last word in picture theatre construction. It is nothing less than a sound-proof, glass-enclosed room for mothers who have crying babies. In this room, which is in full view of the stage, mothers may congregate, each with her infant, and though the youngsters all cry in infantile chorus, the mothers may calmly enjoy the show, knowing that no one is distrubed and that the orchestra is not hampered in its efforts.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Boiler House and Engine Room, Filbert street, between Seventh and Eighth streets. Engineers, Stewart A. Jellett Co., Real Estate Trust Building. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. Brick, concrete and steel, 5 stories, 80x76 feet, asbestos built-up roof, metal lath, waterproofing, iron work, fire escapes, kalamein doors, hollow metal skylights, rolled steel and hollow metal sash, stone foundations. Architect, taking bids due August 2nd. Warren Moore Co., Colonial Trust Building; John N. Gill & Co., Otis Building, and Lam Building Co., 1001 Wood street, are figuring.

Residence (alts.) to (5) Family Apartments, Southeast Corner Seventeenth and Oxford streets, Philadelphia. Architect, Ellery K. Taylor, 1627 Sansom street, Philadelphia. Owner, name withheld. Changing three-story dwelling into 5 family apartments, brick, 1 story add., 12x20 feet, slag roof, changing partitions, steam heating, electric lighting, plumbing, plastering, painting, papering. Ready for bids.

Manufacturing Building (alts. and add.), Orianna and Willow streets. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, E. Hubschman, on premises. Reinforced concrete and steel, 1 story, 110x59 feet, slag roof, cement floors, fire doors, rolled steel sash, concrete foundations (heating and electric work reserved). Architects taking revised bids due August 5th. Robert E. Lamb Co., 843 North Nineteenth street; Sutton & Stephensson, 1317 Washington avenue; Ketcham & McQuade, 1029 Brown street; F. B. Davis & Son, 240 North Sixteenth street; Cramp & Co., Denckla Building; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; W. O. Springer, 2004 Naudain street; William R. Dougherty, 1610 Sansom street; Thomas C. Trafford, 1613 Sansom street; M. H. McCloskey, Jr., Inc., 1620 Thompson street; Kober Const. Co., 34 South Seventeenth street, and Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia, are figuring.

Residences (3) to Apartments, 2301-2322-24 North Park atenue, Philadelphia. Architect, Frank E. Hahn, Inc., Denckla Building, Philadelphia. Owner, Dr. D. Hyman, Ninth and Market streets, Philadelphia. Changing residences to apartments, new brick add., 3 stories, 16x20 feet, slag roof, hardwood floors, vapor heating, electric lighting, tile and marble work, plumbing, fire escapes. Architect taking bids due as soon as possible. Thomas C. Trafford, 1613 Sansom street; Frank G. English, 1618 North Carlisle street; Kober Const. Co., 34 South Seventeenth street; McNeill, Valentine, Inc., 841 North Broad street; Smith-Hardican Co., 1606 Cherry street, and F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Sunday School Building, Fifty-fifth and Pentridge streets, Philadelphia. Architect, W. H. Garns, Indianapolis, Ind. Owners, Emmanuel M. P. Church, care of William F. Heckenberger, secretary, 5022 Ogden street, Philadelphia. Stone, 1 story, 58x64 feet, asbestos shingle roof, pine floors, metal lath, iron work, stone foundations, steam heating, electric lighting. Owners taking bids due July 30th at 8 A. M. F. B. Davis & Son, 240 North Sixteenth street, Philadelphia, are figuring.

Property (alts.), 35 South Thirteenth street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, J. F. Hill, 34 South Thirteenth street, Philadelphia. Marble and tile work, metal ceilings, plastering, metal lath, electric work, heating repairs, mill work, carpentry, painting, glazing. Architect has received bids.

Garage, Fifth and Berks streets, Philadelphia. Architect, John H. Hamilton, 420 Somerville street, Philadelphia. Owners, McCaffrey File Works, on premises. Brick, 2 stories, slag roof, cement floors. Owners taking bids due August 1st. Frank G. English, 1610 North Carlisle street; E. E. Hollenback, Inc., 1804 Brandywine street, and Frank Mark Cont. Co., 2820 North Twenty-first street, are figuring.

Service Station and Garage, 212-222 North Juniper street, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, George Shields, care of Lyric Garage, 231 North Juniper street, Philadelphia. Architect taking additional bid from Joseph E. Foster, 806 Walnut street, who wants sub-bids due as soon as possible.

Residence, Frankford, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 32x50 feet, slate roof, hardwood floors, stone foundations, electric lighting (heating undecided). Plans in progress.

Convent, Chestnut Hill, Philadelphia. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Church of Our Mother of Consolation, care of Rev. N. J. Vasey, O. S. A., Chestnut Hill, Pa. Stone, 3 stories, 35x76 feet, stone foundations, tile roof, hardwood floors, hot water heat, elecrtic light, tile and marble work. Plans in progress.

Building (alts.), 1028 Arch street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Peter O'Connor, care of architect. Brick and steel, 3 stories, 22x133 feet, slag roof, pine floors, stone foundations, steam heating, electric lighting, iron work. Architect is taking approximate bid.

Store and Apartments (alts.), Fifth and Rising Sun Lane, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, Benjamin M. Miller, on premises. General alterations. Owner taking bids. Lam Building Co., 1001 Wood street, Philadelphia, is figuring.

Store and Dwelling (alts. and add.), 1945 South street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, S. Moskovitz, on premises. Brick, 2 stories, 16x18 feet, slag roof, pine and hardwood floors, stone foundations, electric lighting, tile and marble work, cement work, plastering, steel work, leaded glass, flush bulks, metal ceiling. Owner is taking bids. Jacob Bender, 1817 South Fourth street, is figuring.

Engine Room, Garage and Machine Shop, Margaret and James streets. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Blumenthal Bros., on premises. Brick, concrete and steel, 1 story, 38x28 feet, and 1 story, 80x32 feet, slag roof, cement floors, hollow metal skylights, iron work, stone foundations (heating and electric work reserved). Architects have received bids.

Residence (alts.), 3214 North Broad street, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Harvey C. Miller, on premises. Alterations to interior of first floor. Plans in progress.

School, Frankford avenue and Venango streets, Philadelphia. Architect, George Ashton Audsley, Bloomsfield, N. J. Owners, St. Joan of Arc Roman Catholic Church, care of Rev. E. Hawks, 3403 Frankford avenue, Philadelphia. Brick, 2 stories. Plans completed. Owner will take bids in the spring.

Residence (alts. and add.), 525 Pine street, Philadelphia. Architect, H. Rex Stackhouse,

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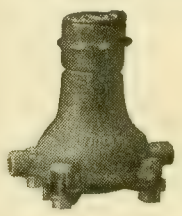
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129 South Fifth street, Philadelphia. Owner, S. B. Koffler, care of architect. New bathroom addition, brick, 1 story, slag roof. Plans in progress.

Nurses' Home, 1012-14-16-18 Spruce street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Jefferson Hospital, Tenth and Walnut streets, Philadelphia. Plans in progress. Too early for details.

Old Folks' Home, 1122-24 Lombard street, Philadelphia, $35,000. Architect, C. Henry Wilson, 2nd, 1928 South College avenue, Philadelphia. Owners, Shiloh Baptist Church, care of Rev. A. R. Robinson, 1639 Christian street, Philadelphia. Brick, 4 stories, 32x74 feet, slag roof, hardwood and tile floors, stone foundations, steam heat, electric lighting, hollow metal skylights, fire doors, metal weatherstrips, will contain auditorium, dispensary, laundry and diet kitchen. Architect will be ready for bids in one month.

Hotel (alts. and add.), 1431 Walnut street, Philadelphia. Architect, Chas. E. Oelschlager, 1615 Walnut street, Philadelphia. Owners, Longacre Hotel, on premises. Structural steel and concrete, dining room addition, slag roof, electric lighting, carpentry, mill work, painting, brick work. Architect taking bids, due July 28th. Ketcham & McQuade, 1029 Brown street, are figuring.

Garage, Fifth and Berk streets, Philadelphia. Architect, John H. Hamilton, 420 Somerville street, Philadelphia. Owners, McCaffrey File Works, on premises. Brick and steel, irregular size, 1 story, slag roof, cement floor, metal lath, stone foundations, electric light, iron work. Owners taking bids, due August 2nd.

Garage, Seventy-second street, near Elmwood avenue. **Store and Store (add.),** Elmwood avenue, near Seventy-second street, Philadelphia. Architect, private plans. Owner, P. F. Smart, 7200 Elmwood avenue, Philadelphia. Brick, 1 story, 50x50 feet. Store, 1 story, 16x47 feet, and addition, 1 story, 16x37 feet, slag roof, pine floors, steam heating, electric lighting, stone foundations. Owner will build and is ready for sub-bids.

Residences (14), Osage avenue, east of Forty-seventh street, Philadelphia, $154,000 Architect, private plans. Owner, Clarence R. Siegel, Forty-seventh and Larchwood avenue, Philadelphia. Brick, 3 stories, 18½x38 feet, hot water heating, electric lighting, oak and pine floors. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building (alts.) and Warehouse, Palethorpe and Turner streets. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Keystone Spinning Mills Co., 1631 North Second street, Philadelphia. Reinforced concrete and brick, 1 story, 95x60 feet, slag roof, concrete and composition floors, metal lath, safety treads, roof ventilators, dampproofing, elevator hatch. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Cigar Factory (alts.), Third and Brown streets, Philadelphia, $18,000. Architect, Andrew J. Sauer & Co., Deneckla Building, Philadelphia. Owner, G. H. & P. Cigar Co., 21 North Second street, Philadelphia (El Producto). General alterations, carpentry, mill work, sprinkler system, plastering, iron work, metal lath. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Storage Building (alts. and add.), 412 South Water street, $30,000. Architect, private plans. Owners, Pennsylvania Warehouse & Safe Deposit Co., 113 South Third street. Reinforced concrete, fifth story add., 36x156 feet, slag roof. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street.

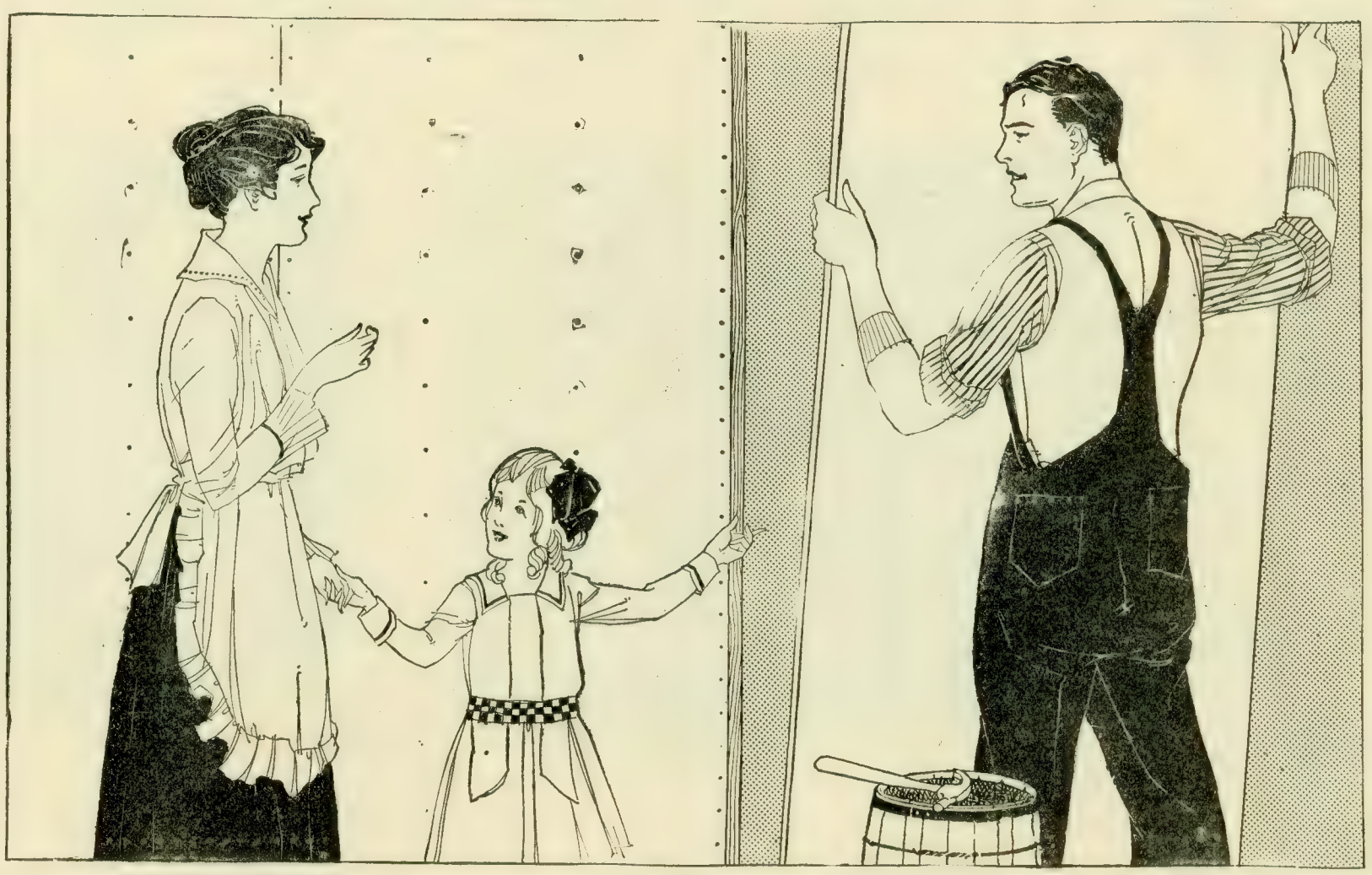
Boiler House (alt. and add.), Convent Lane and Bristol Pike, $15,000. Architect, private plans. Owner, the Academy of the Sacred Heart, Torresdale, Philadelphia. Brick, 1 story, 72x16 feet, concrete work, new boilers. Contract awarded to Thomas Reilly, 1616 Thompson street, Philadelphia.

Sunday School (alts. and add.), 529 East Washington Lane, $6,500. Architect, private plans. Owners, East Washington Lane Mission, on premises. Brick, 1 story, 22x28 feet, slate roof. Electric lighting. Contract awarded to L. W. Kitselman, 125 East Upsal street, Germantown.

Store Building (fire repairs), 1615 Chestnut street, Phila. Architect, private plans.

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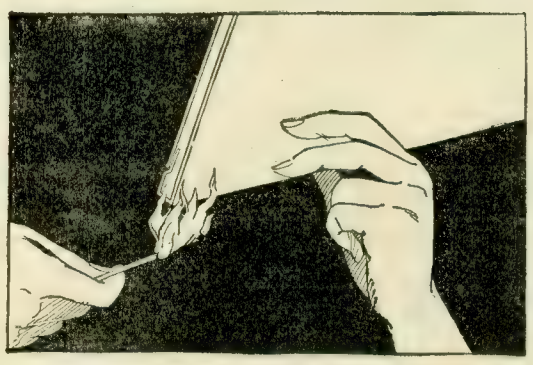
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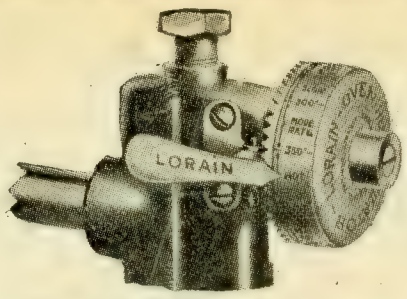


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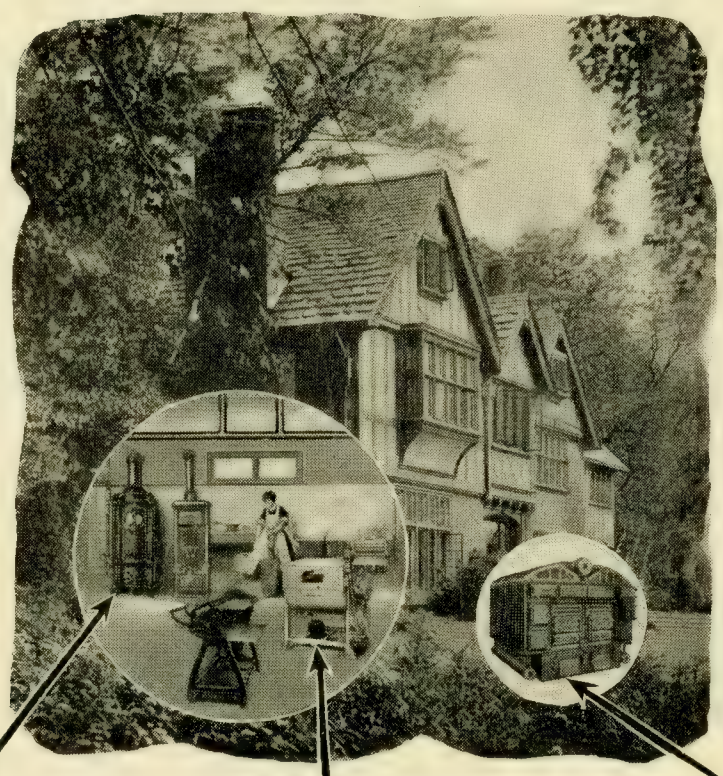


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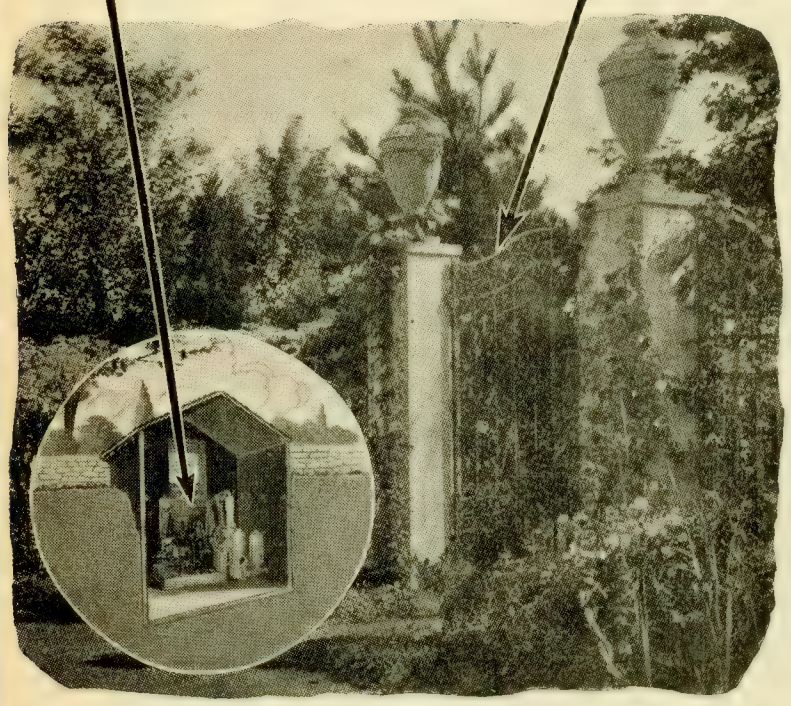
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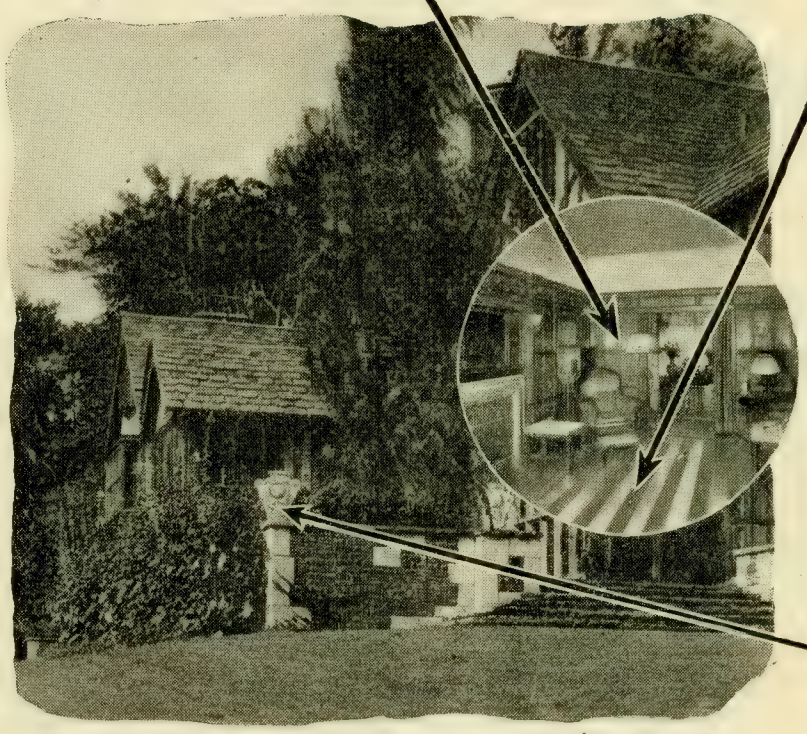
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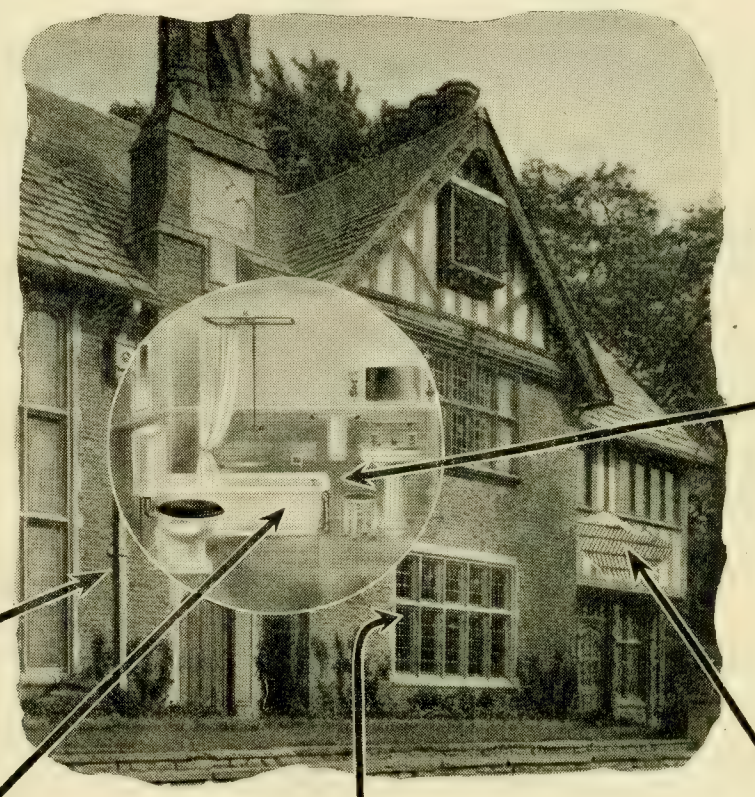
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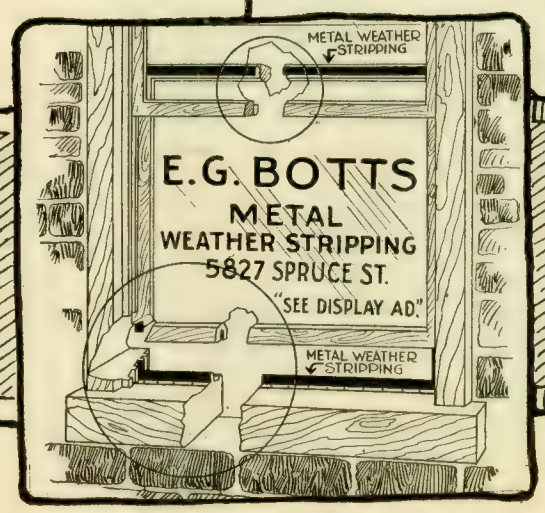
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OF MARYLAND

Owners, Moore & Brown, 212 South Fifteenth street, Philadelphia. General fire repairs. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Residence, Torresdale avenue and Knorr street, Philadelphia, $5,300. Owner, M. E. Mathers, 3301 Knorr street, Philadelphia. Brick, 2 stories, 14½x59 feet, slag roof, hot air heat, electric light. Contract awarded to William H. Geyer, 7052 Tulip street, Philadelphia.

Store and Office Building, Northwest Corner Fifty-second and Market streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Agents, Mohr & Kelley, 5734 Whitby avenue, Philadelphia. Brick, 3 stories, 37x20 feet, slag roof, oak and pine floors, metal lath, fire escapes, iron work, tile and marble work, electric light, stone foundations (heating reserved). Contract awarded to J. D. Fisher, 5414 Thompson street, Philadelphia, and signed.

Store Building (alts.), 916 South Fourth street, Philadelphia. Architect, Frank E. Hahn, Inc., Denckla Building, Philadelphia. Owner, Joseph Feinstein, 938 South Fourth street, Philadelphia. Metal lath, plastering, iron work, roof repairs, carpentry, mill work, marble and tile work, metal ceilings, painting, glazing, electric lighting (heating, paperhanging and gas range reserved). Contract awarded to Dominic Iero, 519 Christian street, Philadelphia.

Garages (2), 5412 Springfield avenue, Philadelphia, $12,600. Architect, private plans. Owner, Anna M. Meckert, on premises. Brick, 1 story, 17x100 feet, and 1 story, 48x18 feet, 32x40 feet, and 16x42 feet, slag roof, cement floors, electric lighting. Contract awarded to J. W. Meckert, 5412 Springfield avenue, Philadelphia.

Store, 5524 Germantown avenue, Philadelphia, $15,000. Architect, private plans. Owner, Thomas Millili, 5528 Germantown avenue, Philadelphia. Brick, 2 stories, 15½x98 feet, slag roof, hot water heat, electric lighting, pine floors. Contract awarded to F. J. O'Donnell, Broad and Chelten avenue, Philadelphia.

Office Building, 1428 Walnut street, Philadelphia, $100,000. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, Charles D. Barney & Co., 122 South Fourth street, Philadelphia. Brick, steel and cut stone, 2 stories, 128x27 feet, slag roof, oak floors, metal lath, skylights, iron work and stairs, stone foundations (heating and electric lighting reserved). Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Building (remodeling), Southwest Corner Eleventh and South streets, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, H. Bernholz, 833 Bainbridge street, Philadelphia. General alterations to 3-story building, 13x62 feet, slag roof, pine floors, steam heating, electric lighting, marble work, plate glass. Contract awarded to Max Sklar, 628 Pine street, Philadelphia.

Factory (add.), Wayne avenue and Windrim street, Philadelphia, $20,000. Architect, private plans. Owners, Brown Instrument Co., on premises. Brick, second story add., 76x50 feet, slag roof, pine floors, steam heating, electric lighting. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Factory (fire repairs), Southeast Corner Trenton and Erie avenues, $20,000. Architect, private plans. Owners, Hulburt Oil & Grease Co., Inc., premises. Brick and concrete, 2 stories, 45x92 feet, slag roof, wood floors, fire doors, electric lighting. Contract

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awarded to Wark & Co., 1737 Filbert street, Philadelphia.

Garage, Northeast Corner Penn and Foulkrod streets, Philadelphia, $8,000. Architect, private plans. Owner, C. Warren Allen, 4917 Frankford avenue, Philadelphia. Brick, 1 story, irregular size, cement floor, slag roof, electric lighting. Contract awarded to J. D. Fotheringham, 1000 Arrott street.

Store and Dwelling (alts. and add.), 1303 North Broad street, Philadelphia, $6,500. Architect, H. H. Kline, 1612 South Fourth street, Philadelphia. Owner, Berman Cohen, 1334 North Broad street, Philadelphia. Brick, 1 story, 6x16 feet, slag roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Contract awarded to B. Shestack, 528 Reed street, Philadelphia.

Restaurant (alts.), 3 South Mole street, Philadelphia, $3,200. Architect, private plans. Owner, John Thommen, 1520 Market street, Philadelphia. General alterations. Contract awarded to A. P. Fraim, 319 Walnut street, Philadelphia.

Club (Auditorium add. and alts.), 1530 North Sixteenth street, Philadelphia. Architect, H. C. Hodgens Co., 130 Souh Fifteenth street, Philadelphia. Owners, Progress Club, Disston Estate, on premises. Brick and steel, 2 stories, 122x47 feet, slag roof, pine floors, metal lath, waterproofing, iron work, fire escapes, marble and terrazzo work, stone foundations. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Elevator Enclosure, 2056 Market street, Philadelphia, $1,700. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, Albert M. Greenfield, on premises. Plastering and metal lath, 4 stories, mill work, carpentry, iron work, fire doors. Contract awarded to Kober Const. Co., 34 South Seventeenth street.

Stores and Offices (alts. and add.), Southwest Corner Seventeenth and Market streets and 1702 and 1704 Market street, Philadelphia, $25,000. Architect, private plans. Owner, F. P. Mellon Estate, 1712 Ludlow street, Philadelphia. Brick, second and third story add., 12x14 feet, slag roof, general renovation. Contract awarded to George C. Dougherty, 1725 Ludlow street, Philadelphia.

Garage (alts.), 6232 Market street, Philadelphia, $6,500. Architect, private plans. Owner, J. P. Pettit, 6242 Market street, Philadelphia. General alterations. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Dwelling (add.), 217 South Fortieth street, Philadelphia, $5,500. Architect, private plans. Owner, John McCreech, on premises. Brick, 2 stories, 12x26 feet, slag roof, hot water heating, electric lighting, plumbing, hardwood floors. Contract awarded to George P. Adams, 5905 Chester avenue, Philadelphia.

Stores and Dwellings (8), 2806 to 2820 N. Fifth street, Philadelphia, $15,000. Architect, private plans. Owner, M. Weiss, 1225 Market street, Philadelphia. General alterations, new fronts. Contract awarded to Frank & Kaiser, 1522 South Sixth street, Philadelphia.

Residences (2), Jackson street, north of Bridge street, $4,000 each. Architect, private plans. Owners, Edw. Frick & James J. Schwartz, 2052 Hillman street. Brick, 2 stories, 16½x40 feet, slag roof, hot water heating, electric lighting, pine floors. Contract awarded to Joseph J. Schwartz, Cornwell Heights, Pa.

Store and Dwelling (alts.), 3135-37 Kensington avenue, $4,000. Architect, private plans. Owner, Lister L. Coleman, 1609 Park avenue, Philadelphia. General alterations, new front, electric lighting, hardwood floors.

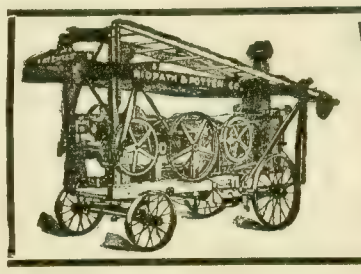


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Contract awarded to Carr & Trauer, 3550 Jasper street, Philadelphia.

Residence (alts. and add.), 2004 Delancey street, Philadelphia, $10,500. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Mrs. H. Gerhard, on premises. Brick, stone work, plastering, steel work, tin roof, hollow tile, safety treads, roof ventilators, hollow metal skylights, iron work (plumbing, heating and electric work reserved). Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Garage, 6028 Pine street, Philadelphia, $23,000. Architect, private plans. Owner, Gertrude Shear, 549 South Redfield street, Philadelphia. Brick, 1 story, 40x226 feet, wing 40x113 feet, slag roof, cement floor, electric lighting, stone foundations. Contract awarded to Joseph Bobb, 5950 Locust street, Philadelphia.

Pennsylvania Construction News

Bank and Office Building, Shamokin, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Polish American Bank, Shamokin, Pa. Stone and steel, 3 stories, 57x65 feet, composition roof, tile floors, hollow tile, metal lath, stone foundations, steam heating, electric lighting, tile and marble work, bank fixtures. Plans in progress. Architect will sublet.

High School, Elysburg, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Elysburg School District, care of Jacob Leisenring, president, Elysburg, Pa. Brick, 2 stories, 50x90 feet, composition roof, steam heating, electric lighting. Plans in progress.

Memorial Bridge, West Conshohocken, Pa. Architect, J. Brinton Young, 1705 Chestnut street, Philadelphia. Owner, Watson-Ford Bridge Memorial Association, Conshohocken, Pa. Granite and bornze, 18 feet high, 18 feet wide at base. Plans will be ready for bids in two weeks.

Church and Parish House and Sunday School, Chester, Pa. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Baptist Church, care of architect. Stone, 1 and 2 stories. Too early for details.

Banking House, Media, Pa. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owners, Media Title & Trust Co., Media, Pa. Brick, concrete, steel and terra cotta, 1 story, 84x44 feet, slag roof, cement, oak and tile floors, metal lath, safety treads, metal weather strips, marble work, electric lighting, steam heating, stone foundations. Architect taking bids due August 10th. John R. Wiggans & Co., Otis Building, Philadelphia; H. E. Baton, 1713 Sansom street, and R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia, and William Provost, Jr., Chester, Pa., are figuring.

Pennsylvania Contracts Awarded

Residence (alts. and add.), Elkins Park, Pa. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Mrs. Wharton Sinkler, Elkins Park, Pa. Carpentry, mill work, painting, glazing, plastering. Contract awarded to H. H. Burrell, 206 South Quince street, who is taking sub-bids.

Manufacturing Building, Norristown, Pa.

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Architects, Lockwood-Greene Co., 101 Park avenue, New York City. Owners, Wildman Mfg. Co., Norristown, Pa. Foundry add., 1 story, 40x65½ feet, and hardening and rumbling building, 2 stories, 38x74 feet, reinforced concrete, brick and hollow tile, slag and asphalt roof, concrete floors, safety treads, iron work, waterproofing, fire doors, slate work. Contract awarded to United Fireproofing Co., 8 West Fortieth street, New York City.

NEW JERSEY
Construction News

Residence and Garage, Delanco, N. J. Architect, Herbert O. Ziegler, Riverside, N. J. Owner, John Datz, Delanco, N. J. Brick, 2½ and 1 story, 28x45 feet, wing 19x16 feet, garage, 18x18 feet, slate roof, pine and marbleloid floors, metal lath, iron work, stone foundations (heating and lighting reserved). Architects taking bids due July 30th. Wills-Ludwick, 1706 Sansom street, Philadelphia, are figuring. (Bond.)

Warehouse, North side of Federal street, East of Delaware avenue, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, J. B. Van Sciver Co., Camden, N. J. Concrete, steel, stone and bricks. Plans about completed.

Garage, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, George Houser, on premises. Brick, 1 story, 50x120 feet, slag roof, cement floors, electric lighting. Owner will take bids.

Store and Office, North Carolina and Atlantic avenues, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, William I. Segal, on premises. Brick and steel, 3 stories, 55x140 feet, concrete foundations, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, hollow metal skylights, roof ventilators. Ready for bids August 1st.

Fire House and Tower, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, City of Atlantic City, care of Dr. J. P. Thompson, Atlantic City. Brick and concrete, 4 stories, 55x100 feet, concrete roof and floors, electric lighting. Ready for bids in a week.

Apartment, 2707 Pacific avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City. Owner, Louis Nickman, care of architect. Brick and stone, 3 stories and basement, 38x121 feet, concrete foundations, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Owners taking sub-bids.

Apartment House, Maryland avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Arnold De Brier, Tennessee avenue, Atlantic City. Brick, 3 stories, 28x127 feet, hardwood floors, electric lighting, tile work. Owner taking sub-bids.

Church, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, M. E. Church, care of architect. Stone, 1 story and basement, stone foundations. Too early for details.

Manufacturing Building, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, name withheld. Reinforced concrete, 2 stories, 60x135 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash, fire doors, roof ventilators, waterproofing, dampproofing. Plans in progress.

Residence (alts. and add.), Haddon Heights, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, J. E. Fagen, on premises. Frame, 2 stories, 30x40 feet, new plumbing, vapor heating, tile work. Architect ready for bids.

Residence (alts. and add.), 513-15 Linden street, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, Lodge of Carpenters and Joiners, Local 393, care of architect. Brick and steel, 2 stories, 32x20 feet, slag roof, hardwood floors, vapor heat, electric light, tile work, general interior alterations, plumbing, fire escapes. Architect taking bids. J. J. Welsh, George Bachman, James W. Draper and L. T. West, all of Camden, N. J., are figuring.

Cockerel House and Boiler House, near Riverton, N. J. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owners, Campbell Soup Farm, No. 1, near Riverton, N. J. Frame, 1 and 2 stories, 120x50 feet, and 1 story, 25x35 feet, prepared roofing, concrete foundations, cement floors, poultry wire. Architect taking bids due July 31st. Lewis Lowden, Riverton, N. J.; Smith & Stavely, Riverton, N. J.; J. S. Rogers Co., Moorestown, N. J., and George W. Shaner & Sons, Palmyra, N. J., are figuring.

Dairy, North Broad street, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owners, Castanea Dairy, North Broad street, Trenton, N. J. Brick, 2 stories, 40x50 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Plans in progress.

Residence, Langhorn, N. J. Architect, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, G. L. Atkins, on premises. Frame, 2½ stories, 28x40 feet, concrete foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Store (alts. and add.), South Broad street, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owner, J. Finkle, South Broad street, Trenton, N. J. Brick, 1 story, 9x34 feet, slag roof, pine floors, tile work, plate glass, interior alterations. Architect will take bids this week.

Church (alts. and add.), Woodbridge, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Trinity Church, care of Rev. W. J. Stoll, on premises. Brick, 1 story, irregular size, slate roof, hardwood floors, interior alterations, new pulpit. Architect taking bids, due as soon as possible. Jackson Bros., Trenton, N. J., are figuring.

Residence, Cadwallader Heights, N. J., $25,000. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, S. Urken, on premises. Hollow tile, 2½ stories, 48x44 feet, concrete foundations, tile roof, hardwood floors, hot water heating, electric lighting. Architect taking bids, due August 2nd. R. Burgess, Jackson Bros., J. Drugan, C. J. Smith, I. H. Clayton, and E. D. LaRue, all of Trenton, N. J., are figuring.



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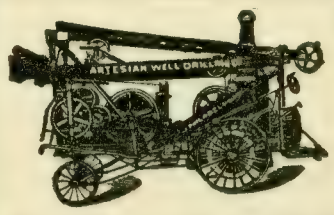
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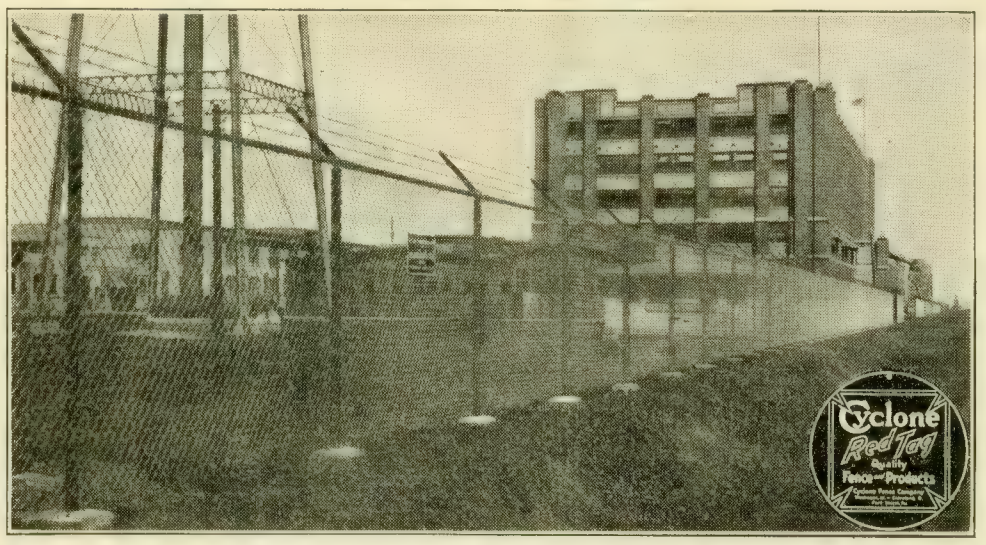
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New Jersey Contracts Awarded

Apartment (alt. and add.), 1905 Pacific avenue, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Dr. Edw. M. Doughty, 1902 Pacific avenue, Atlantic City. Brick, 1 story, 26x31 feet, concrete foundations, slag roof, hardwood floors, vapor heat, electric light, tile work, general interior alterations. Contract awarded to J. Blackman, Atlantic City, N. J.

Garage and Service Station, Tanner street, Haddonfield, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, J. L. Wallworth, Haddonfield, N. J. Brick, steel trusses, 1 story, 50x100 feet, stone foundations, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Contract awarded to L. P. Day, Haddonfield, N. J.

School, No. 2 (add.), Audubon, N. J., $107,975. Architect, John H. Mowere, Phoenixville, Pa. Owners, Board of Education, care of George N. Hoffman, Clerk, Audubon, N. J. Brick and steel, 1 story, 2 wings, 108x55 feet, asbestos built-up roof, asphalt and pine floors, roof ventilators, stone foundations, steam heating, electric lighting. Contract awarded to Fred Lang, Audubon, N. J.

School, No. 3 (add.), Audubon, N. J., $45,000. Architect, David C. Lange, Audubon, N. J. Owner, Board of Education, care of George N. Hoffman, Clerk, Audubon, N. J. Brick, steel and stone, 1 story, 52x24 feet, wing 62x24 feet, asbestos asphalt roof, cement and maple floors, metal lath, safety treads, dampproofing, iron work, stone foundations, steam heating, electric lighting, tile work. Contract awarded to Fred Lang, Audubon, N. J.

Delaware Construction News

Residence (alts.), Seventeenth and Greenhill streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick, stucco, hardwood floors, electric light, sun parlor. Plans in progress.

Residence (alt. and add.), Sixth and Ford streets, Wilmington, $10,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John Rennie, on premises. Brick and slate, 3 stories, various sizes, slate roof, hardwood floors, hot water heat, electric light, interior alterations. Plans in progress.

Residence (alts.), Middletown, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, J. H. Foard, on premises. General interior alterations. Plans in progress.

Residence, Holly Oak, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Stone, 2½ stories, 45x28 feet, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress.

Miscellaneous Construction News

Convent, Washington, D. C. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Aguustinian Fathers, care of Rev. J. J. McShane, 1041 Laurence street, Brookland, Washington, D. C. Stone, 3 stories, 32x60 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Paint and Oil Storehouse, Spec. 4222, Navy Yard, Norfolk, Va. Architect, private plans. Owner, Bureau of Yards and Docks, United States Government, Navy Department, Washington, D. C. Corrugated steel, 1 story, 202x62 feet, corrugated steel roof, concrete floors, metal lath, roof ventilators, hollow metal doors, electric lighting, hot water heating, concrete foundations. Owners have received bids.

Mausoleum, Smithsburg, Md. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Central Mausoleum Co., Carlisle, Pa. Granite, marble, bronze and reinforced concrete, 1 story, 25x60 feet, tile roof, maple floors. Plans in progress. Architect will sublet.

Mausoleum, Coshocton, Ohio. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Licking County Mausoleum Co., Hammill Building, Newark, Ohio. Granite, marble, bronze and reinforced concrete, 1 story, 25x60 feet, tile roof, marble floors. Plans in progress. Architect will sublet.

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CO-OPERATIVE BUYING OF APARTMENTS MEANS BUILDING

The co-operative apartments seems a possible answer to the present housing shortage and consequent high rents. There is a question as to whether the co-operative movement can reach the mass of the people by virtue of the fact that they have not enough money to make the initial outlay, but many real estate operators are sure the tenants of low-priced apartments could in proportion pay as much as those who participated in higher priced co-operative purchasing deals.

The plan of co-operative apartments is not new, but in pre-war conditions there was a tendency for such plans to fizzle out. There were several reasons for this. One of them was that the persons who entered the co-operative plan were ignorant of the management of property: another was that several members of such groups defaulted on their payments, leaving the burden of payment on the rest of the group; still another was that under the then existent low rentals it did not pay a man to become part owner in a piece of property when he could rent a flat at a price little above the expenses of ownership and escape its responsibility.

To-day, however, conditions have changed. The applicants for apartments are greatly in excess of the number of apartments to be had. The element of fear that the apartments may not be rented does not enter into the transaction. A man who becomes part owner in such scheme is more than reasonably certain that in the future, even under the best housing conditions, the cost of carrying the house plus the taxes will never be less than the rent he would have to pay were he not, in a manner, his own landlord. There is still another incentive to co-operative apartment buying. This touches most closely the man who lives in a high-price apartment. He can reduce his income tax not a little by becoming a member of a group which is meeting the cost of taxes and the payment of mortgages.

A concrete example will serve to show how the plan works out:

A group of ten men living in a house whose apartments rent for about $4,000, buy the house and land on which it stands for $575,000, let us say. There are thirty apartments in the house. The men get a mortgage on $275,000, which leaves $300,000 to be paid in cash. Each of the ten men makes an investment of $30,000. Each one gets an apartment. The others are rented at the current price of $4,000 a year. The yearly income from these twenty apartments is $80,000. The operating expenses, taxes, interest on the mortgage would, it was figured out, total an equal amount. The members of the co-operative plan would break even the first year. As the interest on the mortgage grows less and less through its amortization, the co-operators would in time be drawing a dividend on their investment. Their $30,000 initial outlay would not only assure them their apartment and their leases, but after a period of seven or eight years they would be living rent free and draw a profit on their investment besides. The original $30,000 is usually figured as advance rent for the first seven years.

If thirty persons got together in a similiar scheme, it has been figured out that an initial investment of $10,000 would insure each of them a $4,000 apartment for about $2,800. This would decrease with the amortization of the mortgage. In time, the investment of $10,000 would be made up in decrease of rent and the man would go on living in a $4,000 apartment at a yearly rental of $2,800 and less.

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The first type of co-operative plan is more speculative; the second is more conservative.

In the higher priced apartment, a twelve or fifteen thousand dollar apartment under a co-operative plan can be had for a yearly rental running from five to six thousand dollars. The more expensive the apartment, it was stated, the greater the gain to the investor. He can get the current high rental on those apartments which are not tenanted by members of the plan. The aggregate of these is more than sufficient to carry the expenses of the house.

Another reason given for the growth of the co-operative plan movement apart from the rent problem is the lack of ability to get building loans. Owing to the cost of construction these days and the knowledge that this cost is due for a fall in the future, the banks are unwilling to stake prospective builders to large amounts. One man may not be able to get the necessary funds himself, but when he forms a syndicate or co-operative group, all the members of which make a cash investment, the problem of building becomes easier.

Not the smallest advantage to be gained by the floating of these co-operative schemes is the release of capital which might otherwise be lying idle. Men are not building today, because they cannot get the banks to advance them money. Neither can they get individuals to buy their property from them. Just as soon, however, as a real estate man disposes of his house by selling it to a group of tenants who pay a large sum in cash he can turn that money into putting up a new house. The function of the man who owns property, it was pointed out, is to build. Any money that he has will naturally be turned into building channels.—*American Contractor.*

RESOLUTIONS OF MASTER BUILDER'S EXCHANGE OF PHILADELPHIA

The following resolutions were adopted at the special meeting of the Master Builder's Exchange, Philadelphia, on Tuesday, July 20, 1920, viz:

WHEREAS, During the years 1918 and 1919 the Master Builder's Exchange, through its Advisory Board, endeavored by consutation and agreement to pacify the demands of the Allied Building Trades of Philadelphia, with but a small measure of success, and,

WHEREAS, The year 1920 having witnessed increased wages in practically every branch of the Building Industry. we note with alarm further unjust and arrogant demands of the Council of Allied Building Trades, not contemplated in the fixed agreements with their employers, and threats on the part of said Council to enforce by sympathetic strike such unjust and arrogant demands upon the already overburdened Industry; and,

WHEREAS, We, the Board of Directors of the Master Builder's Exchange, an Institution formulated for the encouragement and protection of the Building Industry, and which has been the leader of the Organizations of Philadelphia for the common good for many years past, view with concern the gradual decline in the activity of the Building Industry, due primarily to the condition of uncertain prices and time of completion of work, and also due to losses caused by strikes and general inefficiency of the employee; and,

WHEREAS, We, this Board, as Business Men, feeling a responsibility because of our position, and being vitally interested in the continuance of our Industry without the inevitable temporary cessation that a continuance of these conditions will bring about, with the resultant hardships not only to our members and the Building Industry in general, but the employees as well,

Do hereby resolve, and recommend to the Corporation for adoption:

First.—That we endorse the declaration of principles of the Industrial Committee of the Chamber of Commerce, of Philadelphia.

Second.—That, in order to encourage a greater activity in our Industry, we singly and collectively use our best efforts personally with those from whom we purchase materials for the construction of buildings, to decrease the present margin of profit of material to the lowest possible figure.

Third.—That a Committee, consisting of two representatives, be appointed by each Trade or Trade Association and Profession connected with the Building Industry, to be known as the Master Builders' Exchange Committee on Trade Relations and Policy, whose duty it shall be to work in conjunction with the Industrial Relations Committee of the Chamber of Commerce on the broad policy outlined by it; and with any other committees of other organizations of like character, to formulate plans, ways and means for the future resumption of our Industry.

Fourth.—That wide publicity be given to these resolutions and notification be sent to the Industrial Relations Committee of the Chamber of Commerce, and all such other committees of a like character, of these actions, and all members of Master Builders' Exchange be notified and requested to co-operate and support this resolution in its entirety.

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If you know what you know, you're sure of the dough.

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Kindness will win any dog, whether he has four legs or two.

It's a lot better to drive yourself than to be driven by another.

Four bits are four bits, but there's no known value of an I. O. U.

Some folks think a thing's such a cinch that they won't even try.

If you want to convince the other fellow, start in convincing yourself.

Give a man all that's coming to him, whether it's a kindly word or a rip up the back.

Some guys have a way of looking wise and prosperous, and manage to get away with it; but it takes real brains and work to look and act that way, that's why they are wise and prosperous.

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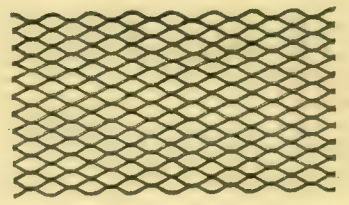
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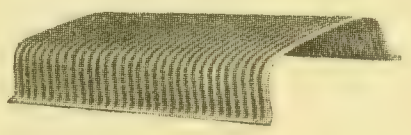
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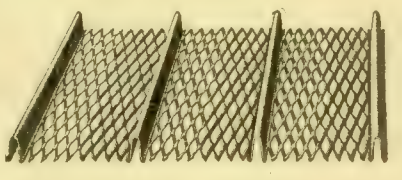
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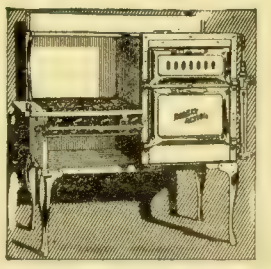


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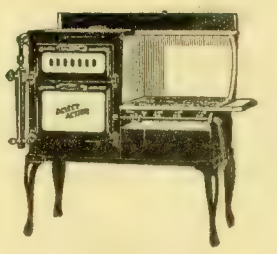
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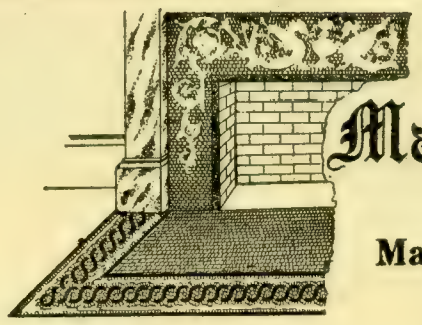
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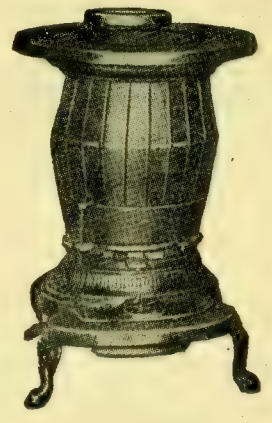


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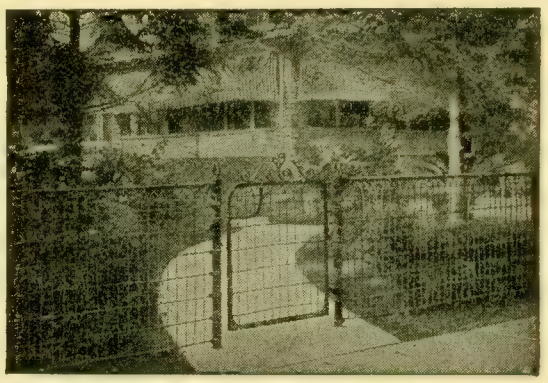
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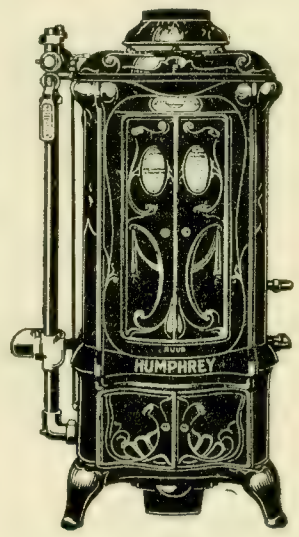
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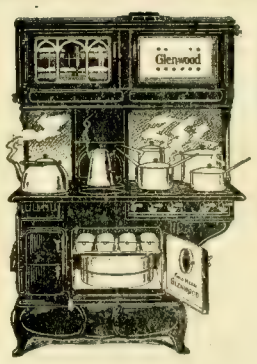
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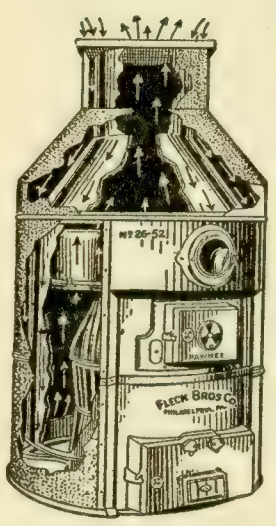


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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 31

PHILADELPHIA
August 4, 1920

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As The Editor Sees It

IT seems very fitting at this time to consider the "open shop" and to present some of the views advanced concerning this most discussed topic. We are prone to believe that if the unions had not made the "closed shop" so insufferable the question would never have been brought to such a decided issue.

As an illustration, we quote an instance cited by the Manufacturers' News, of a *Union* Street car conductor, Bernard O'Reilly, employed by the Chicago Surface Lines.

He was a young fellow who believed in the gospel of work. He had a wife and a bright little child, Mary, two years old, and his home life was all that honest mutual love and devotion could make it. Bernard, impelled by the home-making instinct, wanted a nest for his own, and so he bought a little home on the installment plan.

His regular working hours left him with some spare time on certain days of the week, and this time he employed by working on a building at 4017 Irving Park boulevard.

Every dollar earned was reducing the mortgage on his wife's and baby's home. He sang at his work. Life had never seen so pleasant.

Then, on February 9, along came one Thomas Jakubowski, swarthy and ugly of mein, overbearing and stolid, business agent for the Hodcarriers' Union. He demanded to see O'Reilly's union card and when the latter could not produce one ordered him to quit work. O'Reilly urged that he was a member of the street car men's union and therefore should be allowed to continue at his labors.

Jakubowski insisted upon his demand and after having exhausted his vocabulary had recourse to the walking delegate's most persuasive argument, the revolver. He deliberately shot down the man who had the temerity to dispute his authority.

Does it seem possible that such a condition will be allowed to exist in this land of freedom.

Presenting labor's view of the question, James S. Meade, says, in the Philadelphia "Public Ledger."

There has been much adverse criticism in the public press of this city within the last few weeks relative to organized labor, and it seems that the newspapers of the city apparently do not think it worth while to interview the representatives of organized labor to get their views as regards the local labor situation, particularly as it applies to the building-trade industry. The writer cannot rest quietly under the said criticism, as facts have been repeatedly controverted in this respect.

The so-called "open shop" is a misnomer, as it really means a closed shop against organized labor. Employers who desire to make generally effective this plan do so solely through selfish and mercenary motives; and while they have their own associations for collective action regarding labor, yet they seek to deny the same privilege to their employes.

This last statement seems to have no foundation on fact, for accordindly to G. W. Neippiert, who has made an exhaustive study of the situation.

Open shop associations have within the past year been established in nearly one hundred communities in which the employment situation had been brought to a critical point by the exactions and arbitrary demands of labor unions, and in this term may be included the American Federation of Labor as well as the Industrial Workers of the World and similiar radical organizations, all of which insisted by fair means and foul upon the establishment of what they call the "closed shop." In a closed shop none but union members can be employed and independent workingmen are prohibited from doing any kind of work, even the most menial, in and around the premises of a plant, hotel, store or other business controlled by organized labor.

The slightest infraction of this rule has been the cause of innumerable strikes and boycotts and has entailed an enormous pecuniary and production loss upon the country as a whole.

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NOT satisfied with controlling the personnel of business, the American Federation of Labor and similiar bodies have undertaken to dictate its policy, working hours and working conditions in such a manner as to interfere seriously with the productive capacity and the working efficiency of every establishment controlled by them through their business agents. The open shop movement is denounced by union leaders as having been called into existence for the one and only purpose of exterminating the unions. *Nothing could be farther from the truth.* The open shop associations already established and those in the process of organization are based primarily on co-operation, just treatment, mutual understanding and good will between employers and employes, so that work of all kinds may be carried on with a maximun of speed, economy and efficiency. Secondarily, their aim is to promote and safeguard the interests of all citizens, including both employes and their families, by insuring through the establishment of the open shop equal opporunity for all and special privileges for none and preventing unjust discrimination between employers, employes and the general public.

*The righs of labor to orzanize is recog*nized, as far as I could learn, by every open shop association on the theory that justly conducted labor unions have accommplished much for laboring men. A thorough investigation of the subject has led to the conclusion that it is in no sense the intention of these associations to combat or undermine union labor, but rather to protect personal property and property rights by assuring non-union workers an equal chance with union workmen.

Thus, it is seen the open shop advocates have no quarrels with unions, except as they try to interfere with the American principles of liberty, justice and equality. Thus we will agree with George Mueller, another "closed shop" advocate who contends, in the "Public Ledger" that much good has been accomplished for labor through unions. There is no doubt that organization is a necessary thing in these days; men must band together and elect a spokesman or leader —it is so in every phase of our social existence from religion to politics; but we do no believe that any one class should forget its obligations and relations to the other classes of society and live to and for itself alone.

Just how far unions have gone is shown by a statement in the Builders' Journal.

"The intolerable conditions," says "The Journal" that exist in the ranks of building labor are steadily raising the cost of building to a point where a complete shut down of construction work will be the only remedy. The rate of wage is not by any means the worst feature; this would be willingly paid both by builders and the public if there were a normal amount of work produced in return for it, but aggravated as it is by the very evident intention of the unions to restrict production an impossible situation is created which will in the end work to their own disadvantage.

Typical of the high handed methods of the unions and their inability to see where their policies are leading them is the action of the Building Trades Council of St. Louis, Mo. The unions of that city have issued a notice to all architects, engineers, contractors and master builders, that following September 1, 1920, they shall be required to submit to the Council the names of all contractors and sub-contracors bidding on buildings and the installation of equipment. No building work they say will be undertaken until such a list is furnished and neither will any work be done if any of the firms listed as bidding employ any workmen not union members.

This is straight from the shoulder talk and it gives a clear idea of where the unions stand. It creates an issue that must be met by all employing contractors for otherwise they might as well turn their businesses over to the unions. The concensus of opinion among the contractors of St. Louis is that all building will be shut down on September 1st and not reopened until the ruling is repealed. The closed shop is opposed to American principles; it gives opportunity for the creation of abuses that will stifle all business and from information reaching us from various cities, builders realize that different conditions must be brought about and they are making a determined stand for the open shop.

To substantiate the claims that "open shops" does not mean lower wages; that it does not mean discrimination against union labor; that it does mean a square deal for all, we print a report from the Associated Industries of Seattle, which tell of the success of the Open Shop movement in that city.

Seattle today is practically a strikeless city.

Several months ago the story of how the Associated Industries of Seattle had broken the domination of radicals over the industries of that city, by a firm and successful stand for open shop, was published broadcast throughout the United States. The employers of Seattle, banded together in the Associated Industries, declared their independence of restrictive union rule; stood for their rights to hire their own men and the right of the employees to work, regardless of membership or lack of membership in a union; and established those rights by defeating a series of strikes to enforce unreasonable demands.

Back of this stand of the united employers of Seattle was the knowledge that the radical labor leaders had planned to practically take over the industries of Seattle and operate them, ostensibly in the interest of organized labor. Accordingly it was a fight for the perpetuation of industrial freedom in Seattle in which the whole United States was interested.

The story of the method followed by the Associated Industries in defeating strikes and establishing the open shop; of the broadsides and other publicity in the daily newspapers to win public sentiment over to the "American Plan" of industry; of other phases of the struggle in which employers stood steadfast with unbroken ranks in the face of efforts to close their plants, was read with sympathetic interest by employers throughout the United States, and the Seattle plan of open shop campaign has been adopted in several notable instances since that time.

Naturally, the question has arisen in many minds: Will the Seattle plan endure? Will results be permanent and justify the struggle and expense entailed in putting it over?

Events of the past six months in Seattle justify answering this question in the affirmative. While many sections of this country are still troubled with destructive strikes and interference with production, Seattle today is free from strikes, harmony between employes and employers is on the increase, and the open

(Continued on Page 708.)

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Store and Residence (alts.), 11 South Sixtieth street, Philadelphia. Architect, Ralph S. Goldberg, 5937 North Thirteenth street, Philadelphia. Owner, A. Esmark, on premises. General renovation, hardwood floors, hot air heating, electric lighting. Architect has received revised bids.

Building (alts.), City avenue and Berwick road, Overbrook, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Episcopal Academy, 1324 Locust street, Philadelphia. Structural steel, brick work, mill work, carpentry, iron work, tile work, roof repairs, metal lath, painting (heating, plumbing, electric work and interior painting reserved). Architect has received bids.

Store (alts. and add.), 4674 Frankford avenue, Philadelphia. Architect, Charles S. Parker, 5018 Schuyler street, Philadelphia. Owner, P. Banks, on premises. New store front, cement work, stone foundations, composition floors, electric light, iron work (hot water heating and bulks reserved). Architect taking bids due as soon as possible. Rush Bros., 1611 Foulkrod street; Bushnell Bros., 2146 East Norris street, and Antone Tilli, 926 Lehigh avenue, are figuring.

Stores and Dwellings (2), 628-30 South street, Philadelphia, $13,000. Owner, Max Cylinder, 5734 Chestnut street, Philadelphia. Brick, 3 stories, 15½x29 feet, wing 12x36 feet, hot water heating, slag roof, pine floors, hardwood floors, electric lighting. Owner will build.

Garage, Juniper and Wharton streets, Philadelphia. Architect, Frank V. Nickels, 4400 Manayunk avenue, Philadelphia. Owner, John E. Reale, 27 North Tenth street, Philadelphia. Brick, 1 story, 59x19 feet, slag roof, cement floors, stone foundations (heating, plumbing and electric work reserved). Architect has received bids.

Bank (int. alts.), Kensington and Lehigh avenues, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Kensington Trust Co., on premises. Alterations to dining room and kitchen, enlarging windows, mill work, cement work, iron work. Architects have received bids.

School (roof alts.), Fifth and Lindley avenue, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Incarnation Roman Catholic Church, care of Rev. Michael J. Brady, on premises. Carpentry, copper work, tile roof, painting, slag and slate roofing. Architects have received bids.

Residences (alts. and add.), 2301 and 2322-24 North Park avenue, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, Dr. D. D. Hyman, Ninth and Market streets, Philadelphia. Brick and cut stone, rear add. 3 stories, 16x8 feet, garage, 1 story, 16x9 feet, and 3 stories, 14x12 feet, slag roof, oak, cement and pine floors, metal lath, roof ventilators, waterproofing, dampproofing, iron work, hollow metal skylights, tile and marble work, stone foundations (heating and electric lighting reserved). Architect taking bids due as soon as possible.

Publishing Building, 233-35 South Fifth street, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owners, Jewish World, on premises. General interior and exterior alterations. Plans in progress. Too early for details.

Sales and Service Building, Northeast Corner Broad and Wood streets, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, B. F. Hoffman, 231 North Broad street, Philadelphia. New front, marble and plate glass, interior alterations. Plans in progress.

Hotel (alts. and add.), Van Pelt and Chestnut streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, Rittenhouse Hotel, on premises. Composition floors, brick work, cut stone, structural steel, iron work, tin roof, carpentry, maple and pine floors, mosaic and terrazzo work, metal lath, plastering, changing heating system, electric work. Architects taking bids, due August 7th. Pierce-Henon, Inc., Bulletin Building; Lam Building Co., 1001 Wood street; H. E. Baton, 1713 Sansom street, and Warren-Moore Co., Colonial Trust Building; Wm. R. Dougherty, 1610 Sansom street, are figuring.

School Building (alts.), Forty-third and Baltimore avenue, Philadelphia. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Burd School, care of Mrs. Tappe, Sixty-third and Market streets, Philadelphia. Floor repairs, plumbing, painting. Architects taking bids.

Residence (alts.) to (5) Family Apartments, Southeast Corner Seventeenth and Oxford streets. Architect, Ellery K. Taylor, 1627 Sansom street, Philadelphia. Owner, name withheld. Changing 3-story dwelling into 5 family apartments, brick, 1 story add., 120x20 feet, slag roof, changing partitions, steam heating, electric lighting, plumbing, plastering, painting, papering (heating reserved). Architect ready for bids due August 5th. E. E. Hollenback, Inc., 1804 Brandywine street; J. Jones Davies, 3931 Walnut street, and Alfred Tatro, 2405 South Millick street, are figuring.

Dwellings (7) Repairs and (2) Garages, 1233-35 Bainbridge street. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Joseph W. Salus, Thirteenth and South streets, Philadelphia. General repairs to dwellings, 3 stories, garages, 1 story, galvanized and structural iron, 14½x56 feet and 16x38 feet. Ready for bids in one week.

Warehouse, 806-8-10 Reed street, Philadelphia, $8,500. Architect, private plans. Owner, Harry Goldberg, 1420 South Eighth street, Philadelphia. Brick, 2 stories, 48x92 feet, slag roof, steam heating, electric lighting, cement and pine floors. Owner will build.

Building (alts.), 160 South Seventeenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Francis X. Delaney and H. J. Boehler, care of architect. Brick, 3 stories, 29x74 feet, general alterations, slag roof, brick work, electric lighting. Plans in progress. Will take bids in two weeks.

Building, Hunting Park avenue and McMichael street, Philadelphia. Engineer, D. E. Supplee, care of owners. Owners, Tasty Baking Co., Twenty-third and Sedgley avenue, Philadelphia. Reinforced concrete, 101x101 feet, bid on first story and basement only, cement floors, concrete and stone foundations. Owner has received bids.

Residence (add.), Westview and Wayne avenues, Germantown. Architect, A. D. Hill, 1340 Spruce street, Philadelphia. Owner, Jos. A. Steinmetz, on premises. Brick, 1 story, tin roof, stone foundations, brick work, plastering, tile work, carpentry, mill work, plumbing. Architect taking bids due August 7th. Tourison & Tourison, 1011 Chestnut street, are figuring.

Mezzanine Floor and Rear Add., 1006 Lehigh avenue, Philadelphia. Architect, Charles S. Parker, 5018 Schuyler street, Philadelphia. Owners, Excelsior Trust & Saving Fund Co., on premises. Brick rear add., concrete vault, new mezzanine floor, slate work, metal ceilings. Architect is taking revised bids. H.

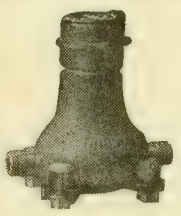
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H. Wehmeyer, 509 West Cumberland street; Antone Tilli, 926 Lehigh avenue, and H. P. Werner, 3245 Germantown avenue, are figuring.

Residence (alts.) to Apartments, 2003 North Broad street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, George Mayer & Son, 728 Sansom street, Philadelphia. Brick, second and third story add., 16x18 feet, slag roof, hardwood floors, mill work, plate and leaded glass, electric lighting, plumbing. Owner taking bids due August 5th. Lam Building Co., 1001 Wood street, is figuring.

Shirt Factory, Southeast Corner Fifty-eighth and Market streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Greenebaum Bros., Larkin Building, Philadelphia. Stone, brick and concrete. Plans in progress.

Church, Mount Airy, Philadelphia. Architect, private plans. Owner, Mount Airy Presbyterian Church, care of Joseph C. Ferguson, Jr., 8 South Fifteenth street, Philadelphia. Carpentry, plastering, painting, rearranging and finishing room. Owner taking bids due as soon as possible. John Schnable Co., Denckla Building; Fred Elvidge & Son, 5522 Germantown avenue, and H. F. Dinkelacker, 1612 McKean street, are figuring.

Dwellings (5) and (1) Garage, Bryn Mawr and Woodbine avenues, $53,500. Architect, Frank Seeburger, Weightman Building, Philadelphia. Owner, T. F. Reilly Bryn Mawr and Overbrook avenues, Philadelphia. Brick, 3 stories, 25x60 feet and 27x48 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work, garage, brick, 2 stories, 35x24 feet, slag roof, cement floor, electric lighting, hot water heating. Owner will build.

Store and Residence (alts. and add.) into Club House, 1618 South Sixth street. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, K. & T. Beneficial Association, care of L. Winner, on premises. Brick, 3-story add., 22x18 feet, slag roof, pine floors, metal lath, cement work, galvanized iron work, hot water heat, electric lighting. Owners will build.

Garage, 3729 Old York road, Philadelphia. Architect, private plans. Owners, Nicholas Nasife & Son, on premises. Brick and steel, 1 story, 60x110 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting. Owner taking bids due as soon as possible. Henry P. Schneider, 3713 Old York road, is figuring.

Residence (alts.) and Garage, Southwest Corner Eighteenth and Pulaski avenue, Philadelphia. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, W. G. Friedgen, on premises. Alterations to residence, new porch, tin roof, electric lighting, hardwood floors, tile work, garage, 1 story, 20x20 feet, slag roof, cement floor, grading and cement work. Owner will be ready for bids in one week.

Residence (alts. and add.), 3730 Germantown avenue, Philadelphia. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, John S. Berklebach, on premises. Brick, 1 story, 16x25 feet, slag roof, oak floors, hot water heat, electric lighting, stone foundations, iron work. Architect taking bids due as soon as possible. Henry P. Schneider, 3713 Old York road, is figuring.

Residence (alts. and add.), 2125 Locust street, Philadelphia. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Miss L. C. Harris, 2123 Locust street, Philadelphia. New bay windows, structural steel, carpentry, mill work, roof repairs, pine floors, tin roof, galvanized iron work, plastering, painting. Architects have received bids.

Hotel (alts. and add.), 1431 Walnut street, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owners, Longacre Hotel, on premises. Structural steel and concrete, dining room add., slag roof, electric lighting, carpentry, mill work, brick work, painting. Owners are taking sub-bids.

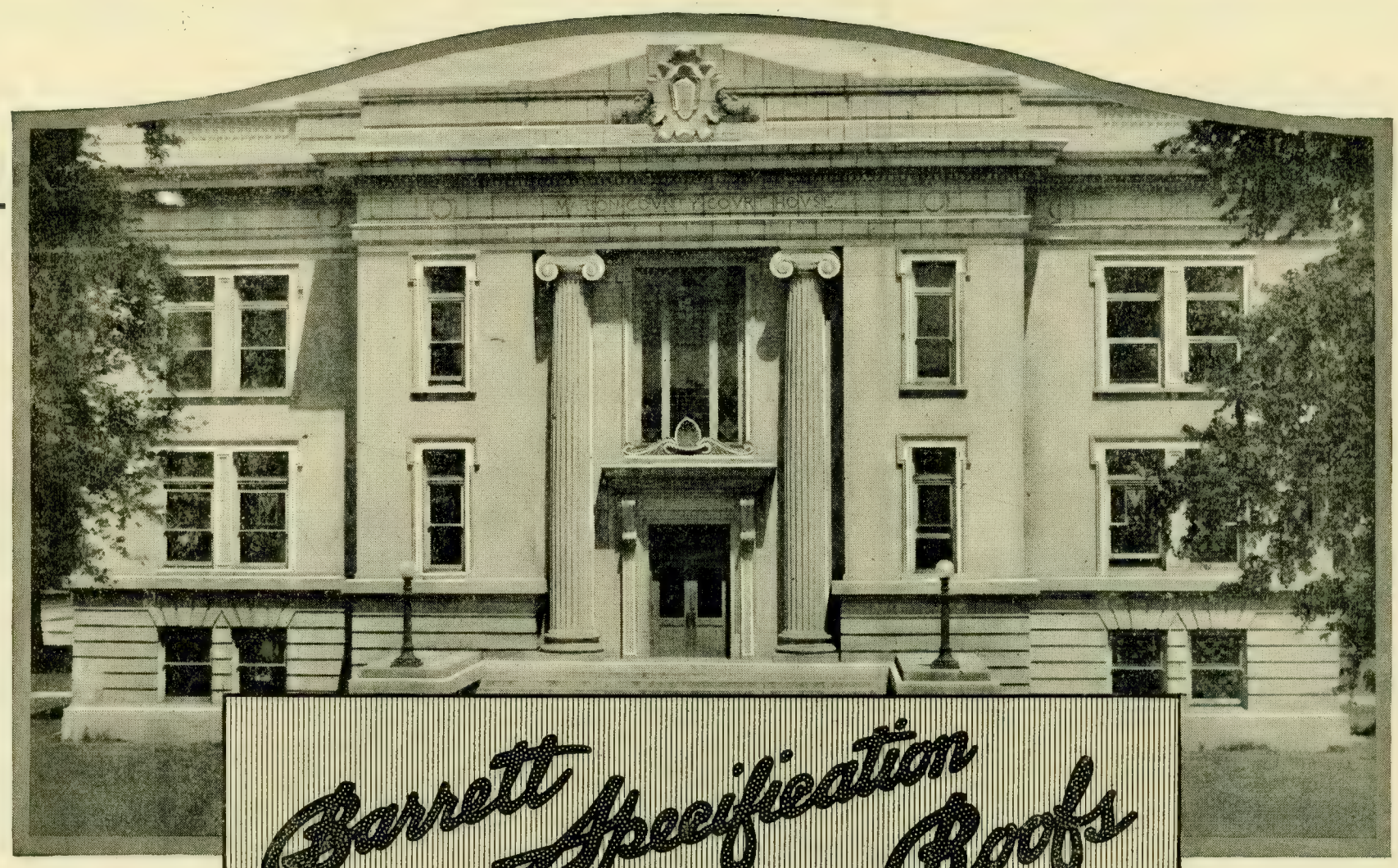
Theatre, Girard avenue, West of Seventh street, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, American Theatre, on premises. Changing lobby, installing booth, stucco work, tile work, plastering. Ready for sub-bids in one week.

Factory (add.), Orianna street and Willow street, Philadelphia. Architetcs, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, E. Hubschman, on premises. Steel, reinforced concrete and brick, 1 story, 59x110 feet, wing 21x17 feet, slag roof, cement floors, concrete and stone foundations, rolled steel sash, fire doors, iron work. Bond. Architect taking bids due August 5th.

Store and Dwelling, Passyunk avenue and Dickinson street, Philadelphia. Architect, private plans. Owner, George A. Furnival, 2409 South Twentieth street, Philadelphia. Brick, 2 stories, 75x79 feet, slag roof, pine and cement floors, stone foundations, iron work (heating and electric work reserved). Owner taking bids due August 5th. John Schnable Co., Denckla Building, is figuring.

Residences (2) (alts.), 616-18 South Broad street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Episcopal Diocesan Church of St. Mary, on premises. Architects taking bids due August 9th at noon. H. H. Burrell, 206 South Quince street, is figuring.

Building (alts. and add.), Southeast Corner Broad and Locust streets, Philadelphia, Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, E. C. Brown, 427 South Broad street, Philadelphia. Altera-



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tions and additions. Plans in progress. Too early for details.

Garage, Fifth and Berks streets, Philadelphia. Architect, John H. Hamilton, 420 Somerville street, Philadelphia. Owners, McCaffrey File Works, Fifth and Berks streets, Philadelphia. Brick, 2 stories, 83x147x74x82 feet, irregular, slag roof, cement and pine floors, metal lath, rolled steel sash and skylights, stone foundations (heating and electric lighting reserved), iron work. Architect taking bids due August 5th. Conneen Const. Co., 10 South Eighteenth street; Thomas Reilly, 1616 Thompson street; Thomas C. Trafford, 1613 Sansom street; Carr & Courtney, 43 South Seventeenth street; Pierce-Henon, Inc., Bulletin Building; A. C. Glenn, care of owner; Frank G. English, 1610 North Carlisle street; E. E. Hollenback, Inc., 1804 Brandywine street, and F. Mark Cont. Co., 2820 North Twenty-first street, are figuring.

Sales and Service Building, 661 N. Broad street, Philadelphia. Architects, McKenzie, Wiley & Frid, Liberty Building, Philadelphia. Owners, J. G. Duncan, Jr., Co., 1228 Race street, Philadelphia. Brick and galvanized iron, 2 stories, 18x100 feet, slag roof, pine and cement floors, metal lath, dumb waiter, hollow metal skylights, steam heating, stone foundations, plumbing. Architects will be ready for bids in a few days.

Fire Tower, northwest corner of Sixth and Market streets, Philadelphia. Architects, Hance, Neely & Mitchell, 1619 Chestnut st., Philadelphia. Owners, Snyder Bros., on premises. Brick and steel, 4 stories, 10x6 feet, slag roof, concrete floors, electric lighting, stone foundations. Architects taking bids, due August 9th. Thos. C. Trafford, 1613 Sansom street; Roger Atkinson, Builders' Exchange; Graham & Wells, 3649 Filbert street; Robbins Cont. Co., 1137 North Front street, and Penn Eng. & Const. Co., 3817 Spring Garden street, Philadelphia, are figuring.

Warehouse, 414-16 South Water street, Philadelphia. Architect, private plans. Owners, Pennsylvania Warehousing and Safe Deposit Co., 113 South Third street. Reinforced concrete, 5 stories, 130x40 feet, slag roof, cement floors, fire doors, iron work, hollow metal sash, stone foundations (heating, electric lighting and plumbing reserved). Bond. Owners taking bids, due August 4th. H. E. Baton, 1713 Sansom street, and Robert E. Lamb Co., 843 North Nineteenth street, are figuring.

Wall, Rex street and Seminole avenue, Philadelphia. Architect, John Graham, Jr., 10 South Eighteenth street, Philadelphia. Owner, Colonel Quincy A. Gilmore, on premises. Concrete, 800 feet long. Architect taking revised bids, due August 5th at 3 P. M. Wm. J. Gruhler & Co., 219 East High street; Fred Elvidge & Son, 5522 Germantown avenue, and Pringle Borthwick, 8018 Germantown avenue, are figuring.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 30, 1920. Sealed Proposals will be received at this office until 3 P. M., Aug. 27, 1920, and then opened, for remodeling the U. S. Post Office and Court House, Roanoke, Va., in accordance with the specification and drawing No. MC-74A, copies of which may be had at this office or at the office of the Custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Sunday School (add.) and Church, Fifty-first and Pine streets, $100,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Oak Park United Presbyterian Congregation, care of Rev. Thomas C. Pollock, 5034 Hazel avenue, Philadelphia. Brick and stone, 2 stories and basement, 80x80 feet, slate roof, pine floors, steam heating, electric lighting, tile work. Contract awarded to George Berham, Sixty-sixth avenue and Thirteenth street, Oak Lane, Philadelphia.

Ticket Office (alts.), 223½ South Broad street, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Conway's Ticket Office, on premises. Carpentry, marble work, pine floors, plastering, metal lath, glazing, painting, electric work, hardware. Contract awarded to Basch & Co., 1426 South Front street, Philadelphia.

Factory (alts. and add.) and Garage, Margaret and James streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Blumenthal Bros., on premises. Brick, concrete and steel, 1 story, 38x28 feet, and 1 story, 80x32 feet, slag roof, cement floors, hollow metal skylights, iron work, stone foundations (heating and electric lighting reserved). Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Residence (alts.), 1531 North 16th street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, Morris Wolf, on premises. Cabinet work, brick work, marble work, heating repairs, mill work, carpentry, electric lighting. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Store (alts.), 1628 Columbia avenue, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, George D. McClarin, on premises. General remodeling, interior alterations. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

Store (alts.) Northeast Corner Eighth and Noble streets, Philadelphia, $5,000. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Lewis Greenberg, on premises. Alterations to first floor of building, 30x30 feet, plastering, hot air heating, electric lighting, brick work, carpentry, mill work, metal ceilings, flush bulks, iron work, sheet metal work. Contract awarded to Getzik & Co., 1415 Germantown avenue, Philadelphia.

Store Building, Southeast Corner Eleventh and South streets, Philadelphia, $14,000. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Simon Rubin, 531 South Eleventh street, Philadelphia. Brick and steel, 3 stories, 18x60 feet, slag roof, pine and oak floors, hot water heat, electric lighting, tile and marble work, iron work. Contract awarded to A. Rubin, 1127 Thompson street, Philadelphia.

Store (alts.), 35 South Thirteenth street,

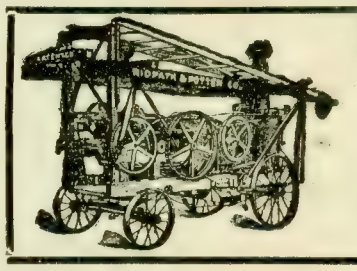


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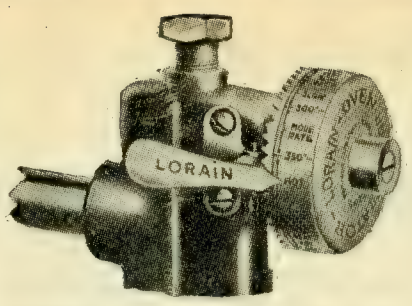
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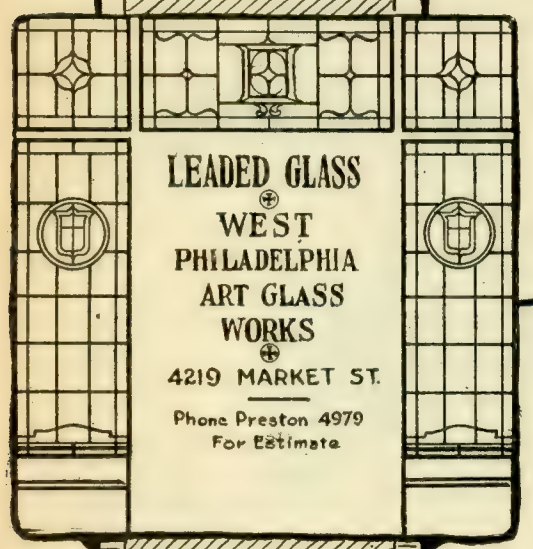
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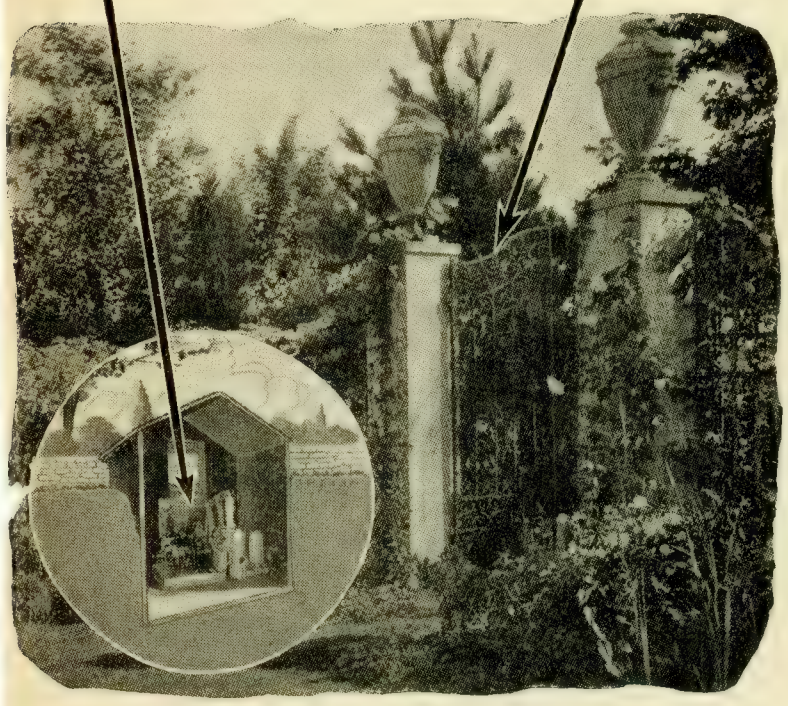
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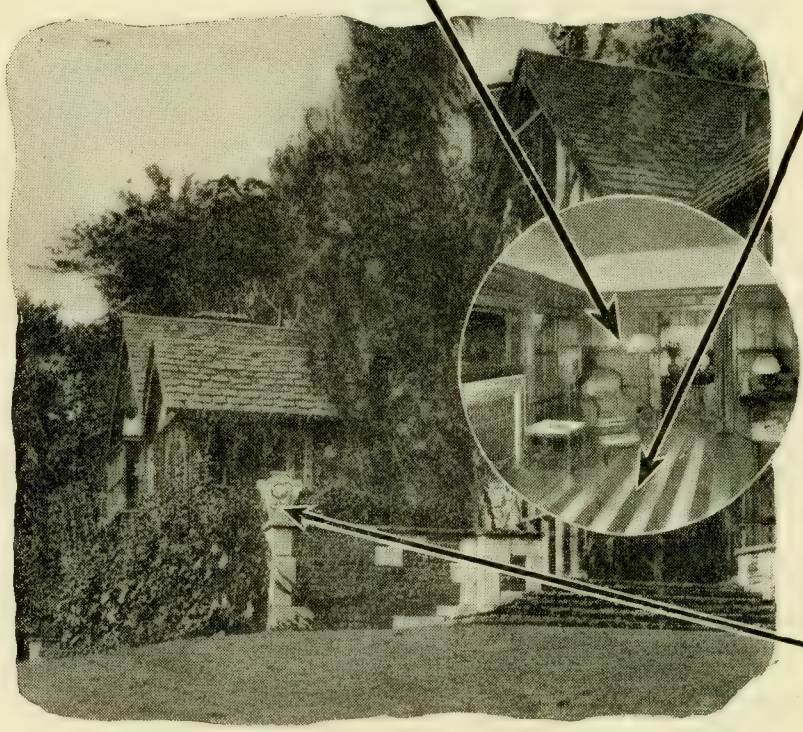
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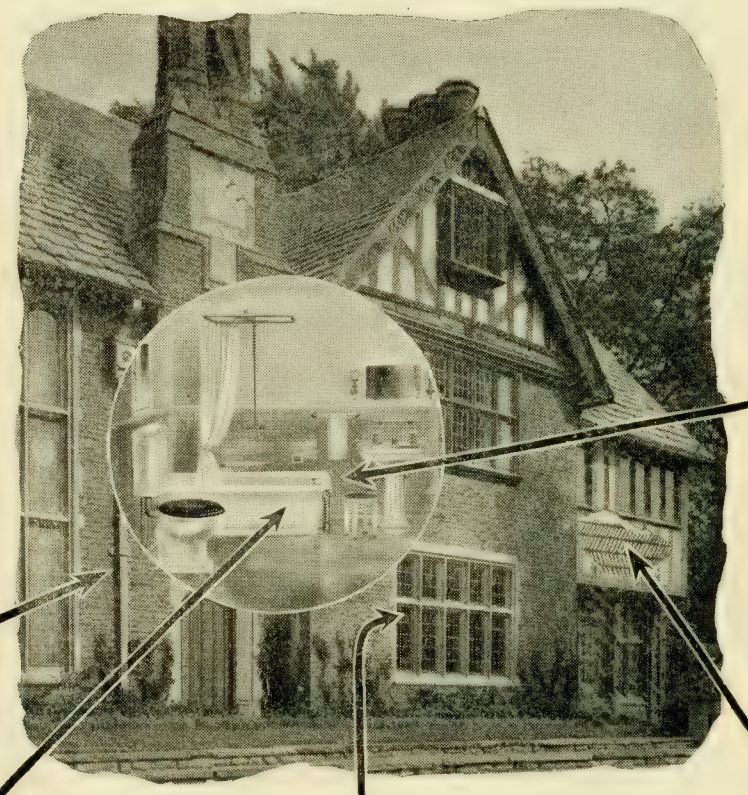


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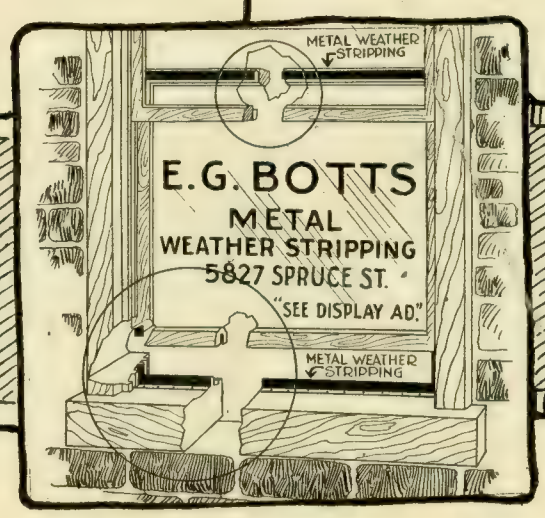






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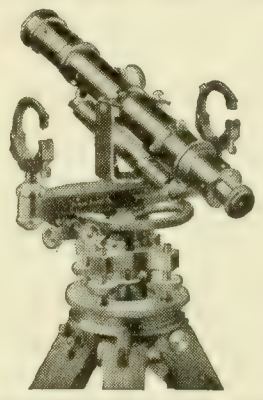


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PHILADELPHIA

Philadelphia. Architect, Frank E. Hahn, Inc., Denckla Building, Philadelphia. Owner, Royal Boot Shop, care of James Hill, on premises. Marble and tile work, metal ceilings, plastering, metal lath, electric work, heating repairs, mill work, carpentry, painting. Contract awarded to National Refrigerator & Table Co., 1445 North Marshall street, Philadelphia.

Rest House, Southwest Corner Broad and Lycoming streets, Philadelphia, $7,000. Architect, W. J. Wilkins Co., Pittsburgh, Pa. Owner, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Terra cotta, 1 story, 10x20 feet, tile roof, hot water heat, electric lighting, cement floors. Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Foundations, Powder Mill Lane and Frankford Creek, Philadelphia. Architect, Amos W. Barnes, 1507 Arch street, Philadelphia Owner, Philadelphia Felt Co., on premises. Concrete foundations for valves pits and pipe lines. Contract awarded to Standard Cement & Paving Co., care of owners.

Shop, 2539-41 North Twenty-sixth street, Philadelphia, $5,000. Architect, private plans. Owners, Automatic Fuel Saving Co., Bulletin Building, Philadelphia. Brick, 2 stories, 19½x29½ feet, slag roof, cement floor. Contract awarded to George H. Evans, 45 North Thirteenth street, Philadelphia.

Dwelling (alts. and add.), 6616 Emlen street, Philadelphia, $15,000. Architect, private plans. Owner, Mrs. F. Hickman, on premises. Brick, 1 story, 16x2 feet, hot water heat, electric light, tile work, oak floors, painting, plastering, plumbing. Contract awarded to A. L. Fretz & Son, Heed Building, Philadelphia.

Factory (fire repairs), 216-28 South Third street, Philadelphia, $12,500. Architect, private plans. Owners, Smulovitz & Son, on premises. Restoration of fire damage. Contract awarded to B. Shestack Co.,, 528 Reed street, Philadelphia.

Machine Shop Extension, Fifty-first and Gray's avenue, Philadelphia. Architect, private plans. Owner, Taylor Wharton Iron & Steel Co., Twenty-fifth and Washington avenue. Brick, stucco and steel, 1 story, 90x100 feet, gypsum tile roof, cement floors, metal lath, waterproofing, rolled steel sash, steam heating. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building.

Building (add.), 1411 Bainbridge street, Philadelphia, $3,000. Architect, private plans. Owner, J. Solomon, on premises. Brick, 1 story, slag roof, pine floors. Contract awarded to Charles Schnitzer, 2513 North Thirty-first street, Philadelphia.

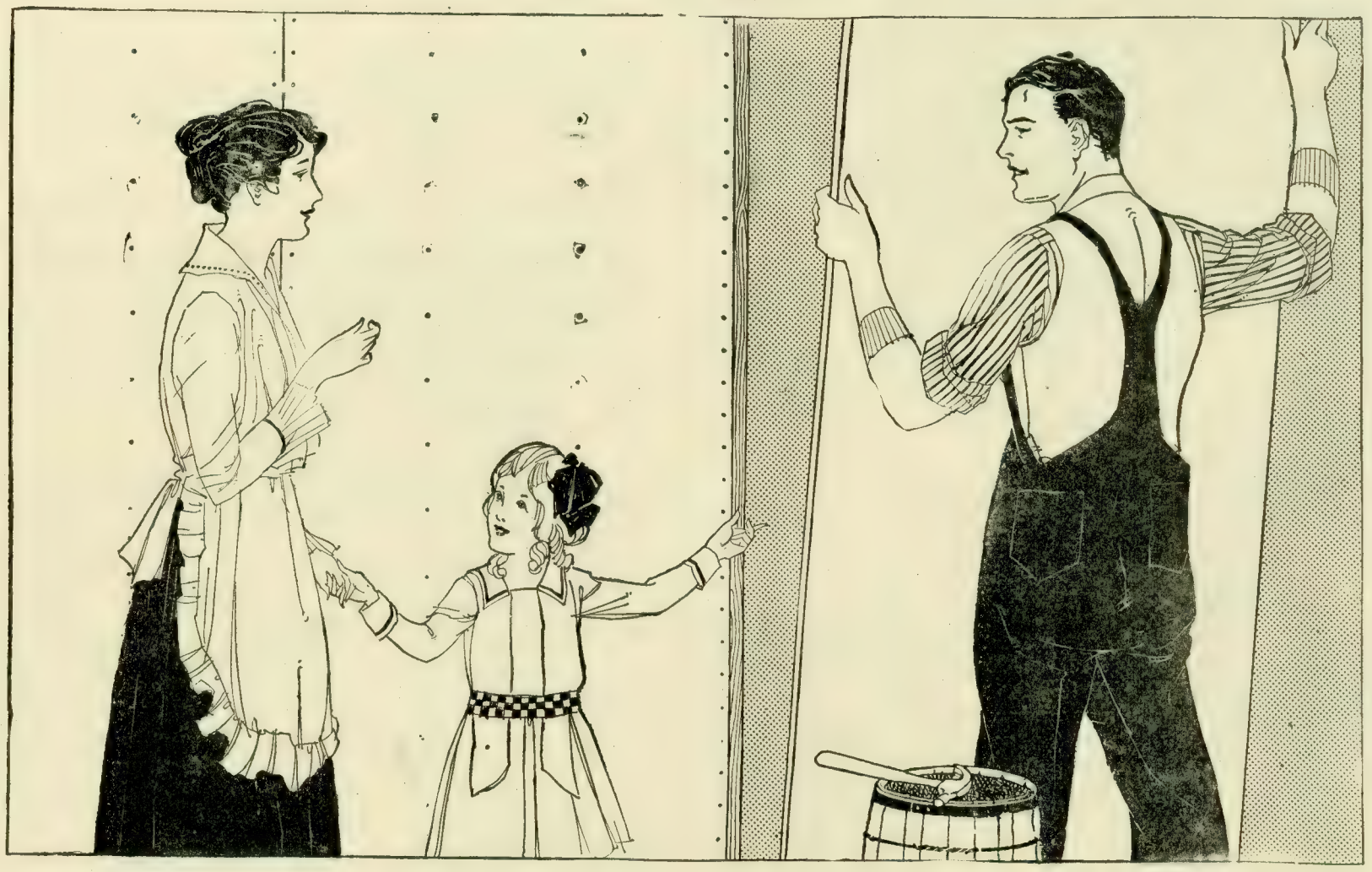
Building (alts.), 908 Walnut street, Philadelphia. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owner's name withheld. Interior alterations and repairs. Contract awarded to John Schnable Co., Denckla Building, Philadelphia.

Shop, Collins street, north of Allegheny avenue, Philadelphia, $3,800. Architect, private plans. Owners, Masland Dura Leather Co., Amber and Willard streets, Philadelphia. Iron, 1 story, 18x20 feet. Contract awarded to A. E. Barnes & Co., 2048 East Wishart street, Philadelphia.

Elevator Shaft, northeast corner of Water and South streets, Philadelphia, $6,000. Architect, private plans. Owners, Hinde & Dauch Paper Co., Sandusky, Ohio. Brick, 4 stories, steel sash, cement floors, slag roof. Contract awarded to Pierce Henon, Inc., Bulletin Building, Philadelphia.

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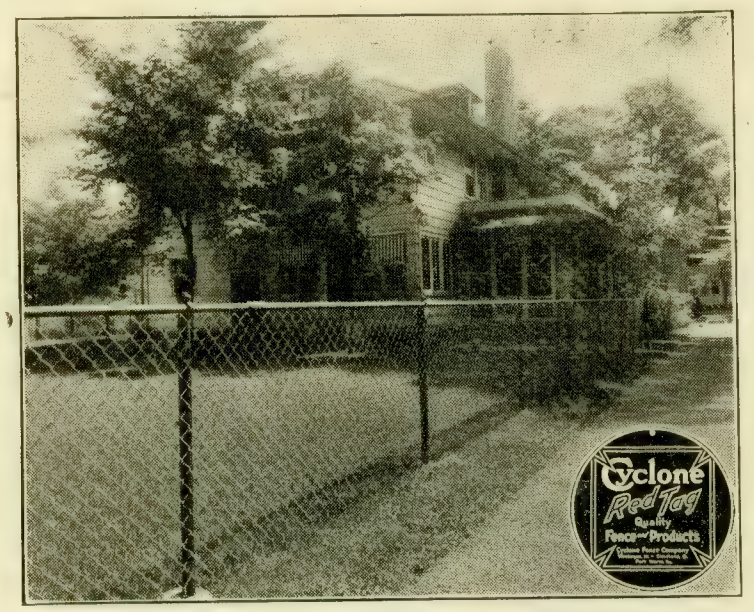


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PENNSYLVANIA

Construction News

Church, Sunday School and Parsonage, Duquesne, Pa. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Reformed Church, care of Rev. Henry E. Gibhard, Duquesne, Pa. Stone, 1 and 2 stories, slag roof, wood floors, steam heating, electric lighting, tile work. Owners are taking sub-bids.

Church, Centre Square, Pa. Architects, Berry & Cummiskey, Real Estate Trust Building, Philadelphia. Owner, St. Helena's Roman Catholic Church, care of Rev. Francis E. Higgins, Centre Square, Pa. Stone and stucco, 57x113 feet, tile roof, pine floors, stone foundations (heating, electric lighting and plumbing reserved). Architects have received bids.

Bank, Northampton, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owner, Cement National Bank, Northampton, Pa. Stone and brick, 3 stories, 60x90 feet, tile floors, steam heat, electric light, tile, marble and terrazzo work, hollow metal skylights, bank fixtures, roof ventilators. Architect ready for bids.

Theatre, Borough of Wilson, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, Twin City Theatre Co., C. D. Buss, 104 North Fourth street, Easton, Pa. Brick, 1 and 2 stories, 125x112 feet, concrete foundations, slag roof, concrete floors, electric lighting (heating reserved), hollow metal skylights, roof ventilators. Architect has received bids.

Garage, Lewisown, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, Keystone Motor Co., Lewistown, Pa. Steel, reinforced concrete and brick, fireproof, 2 stories, 181x201 feet, slag roof, cement floors, concrete foundations, steam heating, electric lighting, plumbing, rolled steel sash, hollow metal skylights, fire doors, roof ventilators. Ready for bids in three weeks.

Schoos (2) (Central) and (Vine St.), (alts. and add.), Bethlehem, Pa. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, Bethlehem School District, care of E. Speck, president, Brodhead street and Packer avenue, Bethlehem, Pa. Brick. Preliminary plans in progress.

High School and Elementary School (alts.), Abington, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Board of Education, Abington, Pa. New partitions, glazing, minor alterations. Architects taking bids due August 7th. Harry Murphy, Willow Grove, Pa.; E. Allen Reeves, Abington, Pa.; E. D. Lever, Abington, Pa., and Specht & Sperry, Heed Building, Philadelphia, are figuring.

Church (alts. and add.) (restoration), Phoenixville, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, Church of the Sacred Heart, Phoenixville, Pa. Stone, steel and brick, 1 story, 56x35 feet, slag roof, pine floors, safety treads, iron work, terrazzo floors, stone foundations (heating, electric work and plumbing reserved). Bond. Architect taking bids due August 11th. Fred H. Kaiser, Pottstown, Pa.; James Duffy, Wayne, Pa.; M. J. Fetters, Phoenixville, Pa., and William R. Dougherty, 1610 Sansom street, Philadelphia, are figuring.

Residence, Merion, Pa. Architects, Hence, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owner, Wm. E. Hexamer, 1619 Chestnut street, Philadelphia. Frame and stucco, 2½ stories, 29x30 feet, slate roof, oak and tile floors, stone foundations, hot water heating, electric lighting. Architects taking bids, due as soon as possible. Tourison & Tourison, 1011 Chestnut street; E. A. Wheeler, 122½ North Sixteenth street; B. Ridgway Evans, Beechwood Park, Pa.; Chas. C. Pace, Merion, Pa., and Roger Atkinson, Builders' Exchange, Philadelphia, are figuring.

Pennsylvania Contracts Awarded

Store and Apartment, 137 South Broad street, Easton, Pa., $13,000. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Rubon Bros., on premises. General interior alterations, new store front. Contract awarded to Bechtel & Bechtel, Easton, Pa.

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Residence (alts.), Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, Dr. L. V. Geehan, Bethlehem, Pa. Interior alterations, hot water heating, hardwood floors, sun parlor. Contract awarded to E. Garber, Bethlehem, Pa.

Garage and Servants' Quarters, West Chester, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, P. M. Sharpless, West Chester, Pa. Stone, 2½ stories, 25x24½ feet, shingle roof, cement and pine floors, stone foundations, electric lighting, plumbing. Contract awarded to James Redmond, West Chester, Pa.

New Jersey Construction News

School (add.), Woodbury Heights, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Board of Education, Woodbury Heights, N. J. Brick. Sketches drawn. Preliminary plans in progress.

Building, No. 12-A, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Steel, concrete, stone and brick. Architects taking bids due August 10th. Barclay White & Co., 1713 Sansom street; Turner Const. Co., 1713 Sansom street, and Cramp & Co., Denckla Building, Philadelphia, and Foundation Co., 33 Broadway; Industrial Eng. Co., 30 Church street, and White Const. Co., 95 Madison avenue, all of New York City, are figuring.

Residence, Haddonfield, N. J. Architect, Ellery K. Taylor, 1627 Sansom street, Philadelphia. Owner, J. Ward Capern, Mountwell avenue, Haddonfield, N. J. Brick and frame, 2½ stories, 24x60 feet, shingle roof, pine floors, brick foundations, electric lighting, tile work (heat undecided). Owners are ready for sub-bids.

Church, Riverton, N. J. Architect, C. Henry Wilson, 2d, 1928 South College avenue, Philadelphia. Owner, St. Paul's Baptist Church, care of Rev. M. A. Foster, Riverton, N. J. Brick, 38x60 feet, asbestos shingle roof, maple floors, steam heat, electric lighting. Owners will take sub-bids and superintend construction at once.

High School, Phillipsburg, N. J., $300,000. Archiect, A. A. Richter, Sixth and Court streets, Reading, Pa. Owner, Board of Education of Phillipsburg, N. J., care of John Monahan, secretary, Phillipsburg, N. J. Brick, 3 stories. Too early for details.

Store Building, Broad and Spruce streets, Camden, N. J. Architect, Philip H. Merz, Pennsylvania Building, Philadelphia. Owners, Harry Pinsky & Son Co., 1126 Spruce street, Camden, N. J. Reinforced concrete, 4 stories and basement, 48x144 feet, slag roof, electric lighting. Architect taking bids, due August 16th. A. R. Raff Cont. Co., 1635 Thompson street; Frank G. Stewart, 1619 Sansom street; H. John Homan, 34 South Seventeenth street; Standard Const. Co., 1713 Sansom street, Philadelphia; J. W. Draper, 436 Haddon avenue; George Hachmann, 19 North Thirtieth street, Camden, N. J., and J. Henry Miller, Baltimore, Md., are figuring.

Power House (add.), Building No. 12-A, Camden, N. J. (Cooper street and Delaware avenue). Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick, concrete and steel, 1 story, 205x54 feet, slag roof, cement floors, safety treads, waterproofing, iron work and stairs, fire doors, hollow metal sash, stone foundations. Architetcts taking bids due August 10th. Bond.

Church, Ventnor, N. J. Architect, Henry D. Dagit, 4527 Pine street, Philadelphia. Owners, Catholic Congregation, Ventnor, N. J. Stone. Plans in progress. Too early for details.

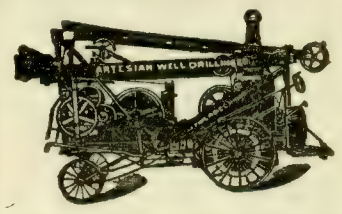
Docks and Wharves, Delaware River, Camden, N. J. Engineer, Wm. D. Sayre, Room 11, City Hall, Camden, N. J. Owners, City of Camden, N. J., Harbor Commission, Camden, N. J. Timber piles, reinforced concrete and steel, 102 feet wide and 470 feet long, steel sheds (electric lighting reserved). Lowest bidders, Tilt Haigen Co., 90 West Broadway, New York City, $213,000.

Theatre Lobby (alts.), Broadway and Pine street, Camden, N. J. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owners, Towers Theatre Co., on premises. Carpentry, millwork, marble work. Architects taking bids, due as soon as possible. Pierce-Henon, Inc., Bulletin Building; Otto Dannenberg, Lancaster avenue and Baring street, and Ketcham & McQuade, 1029 Brown street, Philadelphia, are figuring.

Nurses' Home and Dining Hall, Sixth and Stevens streets, Camden, N. J., $75,000. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Cooper Hospital, Camden, N. J. Reinforced concrete and brick, 3 stories, 45x51 feet, and 1 story, 40x50 feet, slag and tile roof, reinforced concrete floors, tile and marble work (electric lighting, plumbing and heating reserved). Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

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Miscellaneous Construction News

Residence, Mars Hill, Me. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, E. Edmunds, Mars Hill, Me. Frame, 2½ stories, 30x60 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans completed. Owner is ready for bids.

AS THE EDITOR SEES IT

(Continued from Page 696.)

shop has been established in every industry in which a strike had occurred.

When the story of Seattle's struggle to throw off the radical yoke was published, strikes in the building trades, the cleaning and dyeing and some other minor industries, had been won, and the communities throughly converted to the open shop idea, but several other strikes were still in progress, leaving the ultimate outcome in doubt. Since that time the employers have won out against the printers, one of the oldest and most powerful unions in Seattle; against the tailors and several other unions which saw fit to strike. Since August, 1919, every strike has been completely won by employer and the open shop substituted for radical union domination.

Following a winter of comparative peace, radical union leadership attempted to force the issue again in the spring, in the hope of breaking the open shop movement. Attempts to force a new agreement with burdensome conditions on the baking industry late in April resulted in an open shop declaration by the master bakers, and a new strike which the employers won in short order. An obortive attempt was made to call out the workers in the building trades on May 1, which amounted to nothing, for the building trades workers had their fill of strikes last year. The defeat of the building trades strike, which lasted from August to November, 1919, was the first important victory of the Associated Industries and the occasion of the first open shop declaration. Since that victory, things have progressed in the building trades, accompanied by increased production. The majority of the union workers had accepted open shop conditions. They did not wish to go through another period of enforced idleness and so the efforts of union leaders to bring on another strike and overthrow the open shop was fruitless.

The most striking example of Seattle's freedom from the old time radical domination, however, occurred on the Seattle water front. During the war, the local of the International Longshoremen's Associaion got a strangle hold on water front employment. Employers had practically nothing to say about the hiring of men, gangs of longshoremen and truckers being furnished by the union from the union list at the union hall. Although Seatle is a busy port, the union contained about twice as many men as there were full employment for. As a result, the work was often stretched out sufficiently to give a satisfactory measure of employment to all and the cost of handling cargo became inordinately high. Last fall, the employers succeeded in reaching a new agreement which abolished the list system, but early in May the I. L. A. served peremptory notice on employers of the re-establishment of the list system, thereby breaking the clause of thier agreement requiring thirty days notice of termination.

There is a large radical element in the Seattle local of the I. L. A. In fact, it was regarded as one of the last strongholds of radicalism, and a test of strength had been postponed as long as practicable by the employers, but the course of the union left no alternative but to declare open shop and fight it out. That action was taken by the employers. A surprising number of men responded to advertisement of work under the open shop. Within two weeks, work reached normal on the Seattle water front, and the I. L.A. declared the strike off under orders from the international officers who had refused to sanction the strike. As a result, there is a surplus of 1000 to 1500 men on the water front who will eventually have to find other work, for the employers are giving practically continuous employment to those who helped them out during the strike, and who wish to remain at work. Also the conservative element of the union has broken away from the radical leadership and is applying for a charter for a new local.

Also, Seattle escaped any interruption of freight service. While railway workers were striking in many sections of the country, the railway workers and switchmen refused to go out, even in sympathy with the longshoremen.

The Associated Industries has just held its second annual election. In one year of work it has changed Seattle from a radical-ridden and strike distrubed city to one of the most peaceful and productive cities, from the commerical and industrial standpoint, in the United States. The defeat of the radicals has driven some thousands of them from the city, and Seattle is no longer the strong-

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hold of the I. W. W. and the hotbed of soviet conspiracy.

Yes, the Seattle plan has proved a success. The Associated Industries, after an eventful year, is stronger in membership, finance and influence than ever before. It has followed consistently the declaration of a square deal for the employes. In spite of the surplus of labor that has existed for several months with its decadence of the shipyards its members have lived up to their pledge that wages would not be reduced until living costs receded. In some instances wages have been increasd without any requests being made by the employes.

Seattle union men are not discriminated against in the operation of the open shop. Instead, the employers simply refuse to deal with the unions as such. The shop committee system is being worked out to give employes the representation promised them under the open shop. The policy of the Associated Industries is to give the employes such representation and fair treatment that the union is unnecessary to them.

That is why Seattle today is a strikeless city.

Clyde S. Adams, architect, formerly of 1509 Arch street, has moved to new quarters at 2038 Spruce street. Bell telephone, Spruce 2571.

Clarence E. Wunder, formerly of 310 Chestnut street, has taken offices at 1415 Locust street. Keystone, Race 5100; Bell, Spruce 4500.

LUMBER VS. GENERAL BUILDING

More lumber is used in the United States for general building and construction than for any other purpose, says the U. S. Forest Service report of June 1, 1920, before the Senate. In normal years probably 28 billion board feet is used in this way, out of an average annual cut of 40 billion feet.

For the first five years before the war, 1910-14, the average annual building bill of the country shown by the building permits was approximately $670,000,000. After dropping to $445,549,493 in 1918, it rose in 1919 to $1,326,936,702; but with building costs increased 100 per cent. or more, actual construction did not much, if any, exceed the pre-war average. Apparently, construction work throughout the United States is behind requirements. The deficit is greatest in dwelling houses.

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A CONSTITUTION OF INDUSTRIAL RELATIONS

Committee on Labor Submits Statement of Fundamental Principals of Industrial Employment.—Relations Adapted from Report of Chamber of Commerce of the United States—Prelude to Framing of Specific Provisions Covering Particular Needs of the Construction Industry—Open Shop, Collective Bargaining, Obligation to Produce, Community of Interest, Right of Public Service over Private Interests Emphasized—Criticisms of Members and Others Invited Before Report is Finally Adopted

Introduction

THE strict application of the injunction, "thou shalt love thy neighbor as thyself," would solve most of the ills incident to human relations. No further statement of the principle would be necessary.

But as men are constituted, while a considerable proportion of them would admit the righteousness of the injunction, few could lay claim to using it as an unvarying guide in daily practice. This, after all, is merely another way of stating that humanity is still very far from achieving perfection.

Hence, it is encouraging to find that, in frank recognition of their ethical limitations, various groups of men are reaching out in the endeavor to discover and to establish principles that, while constituting an approach to an ideal not yet fully attainable, will meet the conditions of an imperfect present.

Evidence of this is most clearly observable in the struggle to interpret and to establish relations between employers and employes. Here is needed a declaration of principles so basic, so wide in scope, so fair in application, so clear in expression, that it may be accepted as a constant measure of the justice and wisdom of the temporary devices that must be framed to meet the fluctuating conditions.

Such a declaration the undersigned Committee has widely, but unsuccessfully, sought. The closet approach to it they have found in the *Statement of Principles* enunciated by the Chamber of Commerce of the United States, (February 2, 1920) and included in Referedum No. 31 on the report of the committee on Industrial Relations regarding employment relations (June 9, 1920).

A multidue of tongues saying the same thing in different ways, produce nearly as much confusion as if they were saying different things. In this belief, the Committee has felt that the ends of clarity and uniformity would best be met by adopting the form and phraseology of the United States Chamber of Commerce Statement, modified by the omission of details, but retaining the fundamental principles that underlie all employment relations.

That statement, therefore, with such changes as will serve to increase its applicability, is offered in the following pages.

It is the Constitution of Industrial Relations. It is the standard of measure for the special rules, or Statutes, that must be framed for the specific industry concerned.

Fundamental Principles of Industrial Employment Relations

Premable

Employment relations should accord with and express ideals of justice, equality and individual liberty, The terms of employment should conform to the essential requirements of economic law and should, through intelligent co-operation, based on a recognition of mutuality of interest, conduce to high productive efficiency. They should reflect an effort to realize ideals of individual and social betterment.

The interest of the public, which includes every individual in the community, is paramount. It is composed of interdependent interests whose just balance necessitates that impartial justice be accorded to every individual.

There is a mutuality of interest among employers, employes, and investors. Their interest as well as the public interest must be defined and protected and to this end public opinion must be kept informed and enlightened.

The first step toward industrial peace will be a realization of the interdependence of all elements related to industry and a recognition of their responsibility one to another.

In government and public service employment the orderly administration of government must be assured, and the paramount interest of the public protected.

Briefly stated, Justice to all interests, Co-operation between employer and employee, produces Service to the public.

Principles

1—The Employment Relation

Every person possesses the right to engage in any lawful business or occupa-

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tion and to enter, individually or collectively, into any lawful contract of employment either as employer or as employee.

II—The Open Shop

The right of employer and employee to enter into or to determine the conditions of employment relations with each other (without reference to the affiliation or non-affiliation of either with any organization) is an individual right of free contract possessed by each of the parties.

III—Right of Association

All men possess the equal right to associate voluntarily for the accomplishment of lawful purposes by lawful means. The association of men whether of employers, employes, or others, for collective action or dealing, confers no authority over and must not deny any right of those who do not desire to act or deal with them.

IV—Responsibility of Combinations

The public welfare, the protection of the individual, and sound employment relations equally require all associations or combinations be subject to the authority of the State. As the public interest is paramount, full publicity of facts of industrial relations is necessary.

V—Obligation to Secure Production

To develope, with due regard for the health, safety aind well-being of the individual, the maximum capacity and output required of industry is the common social obligation of all engaged therein.

VI—Wages and Management

The wage of labor must be drawn from the product of industry and must therefore be earned and measured by its contribution to production. All employees are entitled to complete business information in matters affecting the terms of their employment; and frankness is essential. In order that the worker, in his own and general interest, may develope his full productive capacity, it is the duty of management to assist him secure regular employment suited to his abilities, to furnish him with incentive and opportunity for self improvement, and to provide proper safeguards for his health and safety.

VII—Hours of Labor

The number of hours in the work day or week in which required maximum output, consistent with the well-being of the workers, can be maintained in a given industry should be ascertained by careful study and never should be exceeded except in case of emergency. One day of rest in seven, or its equivalent, should be provided.

VIII—Adjustment of Employment Relations

Adequate means satisfactory both to the employer and to his employes, and voluntarily agreed to by them, should be provided for mutual discussion and adjustment of employment relations.

IX—Community of Interest

The greatest measure of reward and well-being for both employer and employe, and the full social value of their service to the public must be sought in the successful conduct and full development of the industrial establishment in which they are associated. Intelligent and practical co-operation based upon a mutual recognition of this community of interest constitutes the true basis of sound industrial relations.

X—Government Employment

The State is sovereign and cannot tolerate a divided allegiance on the part of its officers and servants. While the right of government employes, national, state or municipal, to be heard and to secure consideration and just treatment should be amply safeguarded, the community welfare demands that no combination shall be permitted to prevent or impair the operation of government or of any governmental function.

XI—Public Service Employment

In public service activities the public interest and well-being must be the paramount and controlling consideration. The power of regulation and protection exercised by the State over the corporation should properly extend to the employes in so far as may be necessary to assure the adequate, continuous, and unimpaired operation of public utility service.

The Committee on Labor of the Associated General Contractors desire the greatest possible publicity and discussion of the foregoing statement. It invites constructive criticism in order to perfect this draft, if necessary.

It is hoped that it may ultimately be widely adopted as the guide for all industrial employment relations.

Leonard C. Wason, Chairman, Aberthaw Construction Co., Boston, Mass.

H. J. Brennan, W. E. Wood Co., Detroit, Mich.

Tylor Field, Ferro Concrete Const. Co., Cincinnati, O.

G. O. Muhlfeld, Stone & Webster, Boston, Mass.

F. W. Smith, Walsh Const. Co., Cleveland, O.

C. P. Waterman, J. H. Grozier Co., Hartford, Ct.

Fred Weitz, Charles Weitz & Sons, Des Moines, Ia.

LABOR EFFICIENCY AND INEFFICIENCY

The year 1920 is so far showing a slight increase in efficiency of labor over the latter part of 1919, although production at present is not up to the pre-war standard, according to a summary of replies from a list of 169 representative manufacturers to a recent questionnaire sent out by the National Association of Credit Men, and quoted in the June *Monthly Labor Review.*

Comparing the efficiency in March, 1920, over December, 1919, one-third of the number of firms reported an increase in efficiency; nearly one-half reported no improvement, and six per cent. reported a decrease in efficiency over December, 1919.

About 10 per cent. stated that labor was as efficient as in pre-war times, and six per cent. stated that old labor showed as much efficiency as in the pre-war period, but that new labor was inefficient. About 70 per cent. of the 169 companies report labor as being less efficient now than in 1913-14. Although 16 per cent. state that their labor is as efficient now as formerly, only three per cent. declare that it has reached a standard of efficiency higher than in "normal" times.

A large number of employers attribute lowered production to labor shortage. Other important causes cited are industrial unrest, high rate of labor turnover, high wages, reaction from the war, and high cost of living.

Among the causes assigned for increased efficiency are profit-sharing, bonuses, high wages, industrial welfare work, improved methods of management, abatement of industrial unrest, and the education of employees along economic lines.

JUNE BUILDING FIGURES

Returns from the building departments of Atlanta, Boston, Chicago, Cleveland, Detroit, Kansas City, Los Angeles, Milwaukee, Newark, Borough of Bronx, Philadelphia, and Portland, Oregon, all show gains in estimated value of June permits awarded over May permits, says the *American Contractor* in its July 10th issue. These figures give color to the idea that many projects are to be kept to the point of preparation for an early start

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when the break in building stagnation comes.

On the other hand, these cities show a loss in June over May: Akron, Baltimore, Indianapolis, Minneapolis, Omaha, Pittsburgh, St. Louis, San Francisco, Tulsa, Tacoma, Washington and New Orleans.

The *American Contractor* gives the following table, showing the estimated valuation in millions of dollars in the cities indicated for the high and low month of 1920 and for the month of June. The figures are correct to tenths and give a ready comparison of activity thus far in 1920.

Estimated Valuation of Building Permits in Millons of Dollars showng High Month, Low Month and Month of June, 1920.

Chicago—High March, 10.6, low, May 5.7; June, 6.8.

Boston—High, March, 4.8; low, February, 1.0; June, 2.6.

Baltimore—High, April, 7.9; low, June, 1.2; June, 1.2.

Cleveland—High, April, 12.2; low, February, 3.6; June 5.8.

Detroit—High, April 12.4; low, January, 5.7; June, 8.4.

Los Angeles—High, June 6.6; low, March 3.1; June, 6.6.

Minneapolis—High, April 2.3; low, June 1.2; June, 1.2.

Milwaukee—High, April 3.3; low, January, 1.0; June, 3.1.

Philadelphia—High, April 9.9; low, January 3.5; June, 6.7.

St. Louis—High, May 2.1; low, January, 1.2; June, 1.9.

New Orleans—High, May 2.2; low, February 0.3; June, 1.2.

It will be seen from this table that April was the peak month of the first half of the year and that in only one city, Los Angeles, was June the high month. The months seasonally unfavorable to building, January and February, are naturally those which are named oftenest as low months in the table; but in Baltimore and Minneapolis, June was below even these winter months in valuation of building permits. Car shortage is a predominant causes for the present building inactivity.

LOWER BUILDING COSTS IMPROBABLE

Construction Has Not Kept Pace With Requirements

There is a singular unanimity of opinion among those identifled with the construction business that there is little likelihood of a reduction in building costs for some time to come.

P. F. Ayer, chief planner of the Aberhaw Construction Co., says:

"What force can be exerted that will produce a decline in the cost of building? The steel, cement, brick and lumber for the buildings of tomorrow are today in mine, clay bank and forest, entirely untroubled by considerations of passing whims of style. If they are not wanted, they will stay where they are quite untroubled.

"But they will be wanted. Statistics covering a period of years make evident that industry in America requires an annually added increment of building space proportioned to the nation's increase in population. Of late, however, the increase of construction has not kept pace with requirements. At the present time, the deficit is approximately one and one-half billion dollars worth of construction. This represents considerably more than six months' work.

"There was a heavy production of shoes and clothing ready for a market that never fully materialized. In the case of construction, there is an actual shortage that becomes each day increasingly manifest. Evident shortages never yet encouraged reduced prices.

"And not only this: It is a fair assumption that those things whose costs rose the most rapidly will experience the most rapid decline, and that those last to reach the peak of prices will be the last to leave it. In that case, building costs will be a long time in exhibiting any material recession, for only within the past few months have they approached the percentage of increase which general commodities have shown.

"For example; taking 1914 as standard, in 1916 commodity prices had risen 20%; building prices but 17%. By the end of 1917 general commodities had advanced 89%; building but 39%. Building costs through 1919 were 90% above the 1914 level, whereas general commodities were up 138%.

"Latest Aberthaw computations of building costs place them at 135% above the 1914 level; commodity prices are 142% above their earlier level.

"In all of the widespread discussions of building costs there seems pretty general agreement that reduction can take place only through the operation of one, or all, of three courses:

"First; a reduction in demand. Such a reduction may temporarily take place; indeed, it is a phenomenon of the present moment. That it will endure in the face of a very genuine shortage is beyond belief.

"Second; a reduction in wages. With a labor shortage estimated at close to four million workers, the likelihood of an early occurence of what has been termed a liquidation of labor' seems extremely doubtful.

Third; a reduction in the price of materials. In a few lines there have recently been slight price concessions. But with the existing famine in construction very little concession will stimulate a purchasing enhusiasm that will very speedily eliminate the concession. Add to this fact that of a rapidly approaching increase in freight rates and the likelihood of decreasing prices of materials begins to appear remote.

"There is just one measure that may be looked to for reducing the cost of building as well as the cost of anything else: That is a greater efficiency in production —more accomplishment per man per hour. In construction work this can hardly mean greater speeding up of individuals except as more and more mechanical plant may be utilized to minimize hand labor. In general, however it will mean increasing skill on the part of management in so planning and conducting the work of the men on a job that waste time and waste motion are eliminated."

HOME BUILDING EXPERIMENT IN ENGLAND

One of the features in a home building experiment in Manchester, England, as given in the last *Monthly Labor Review*, is the provision made for full week or all-weather employment by having one staff for inside and outside work. In fine weather all the workers are concentrated on outside jobs and in wet weather they are shifted to the inside. This method will result in having many houses at different stages of completion at one time and calls for a corresponding large working capital, but Manchester stands ready to meet this difficulty.

The municipality is to provide the funds for erecting 1000 houses in one of its surburbs while the building guild is to furnish not only the manual labor, but also the technical and administrative workers. The city is to pay the labor cost and 10 per cent. additional, and is to receive the houses when they are built. The extra 10 per cent. is to cover losses, transportation cost, etc., and the city council is to buy the building material..

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Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

ARTESIAN WELL PUMPS.
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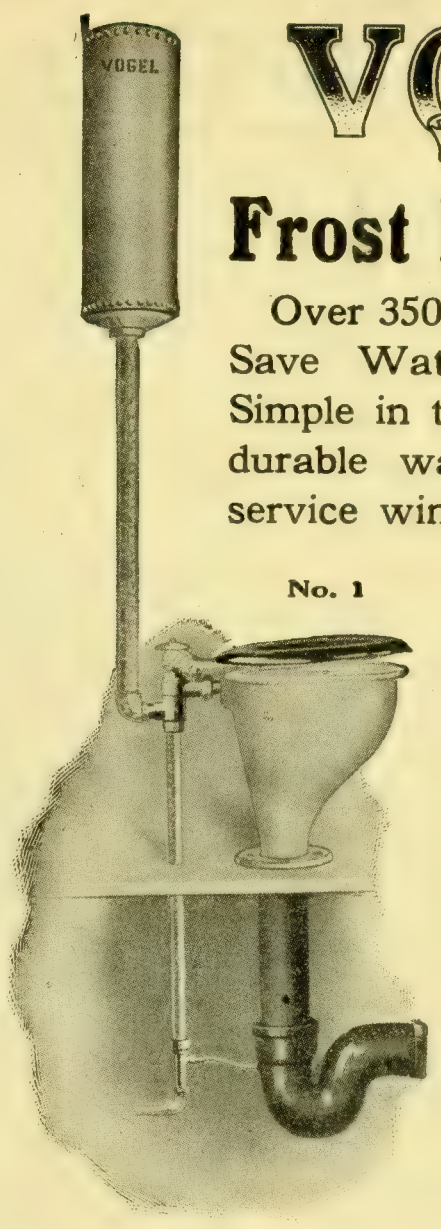
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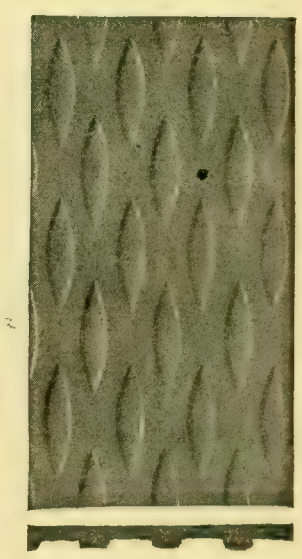
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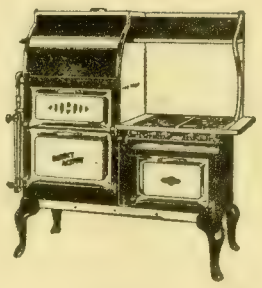
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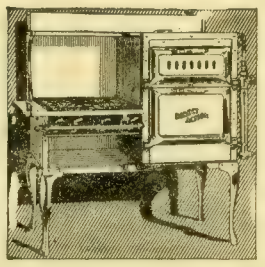


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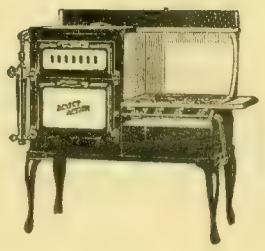
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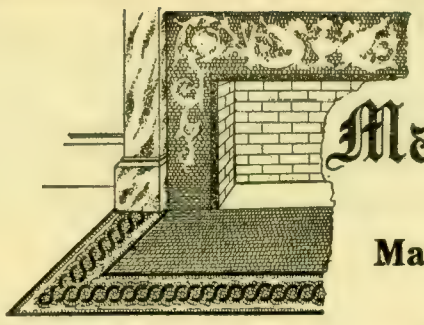
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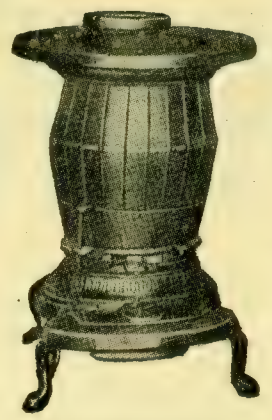
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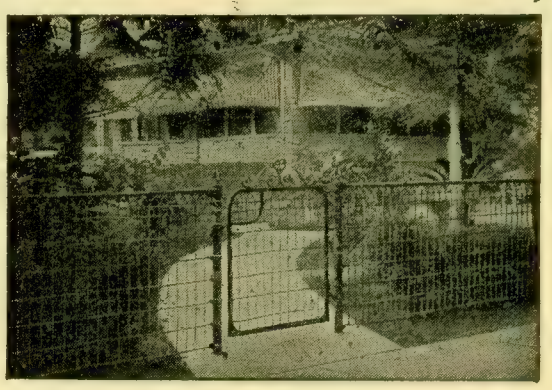
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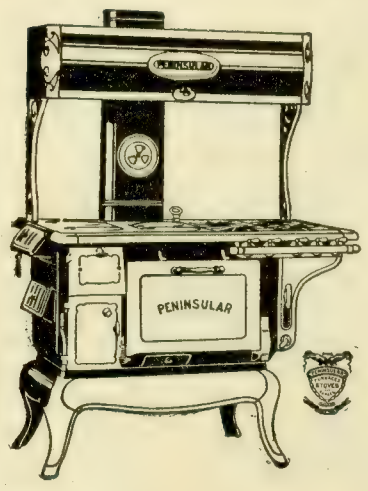
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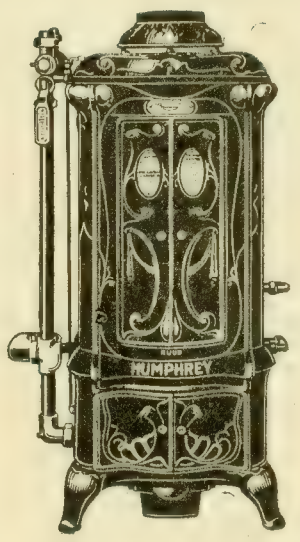
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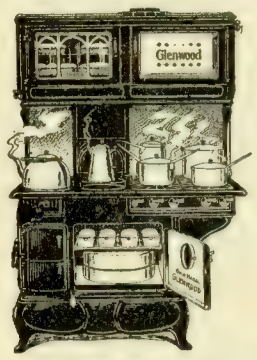
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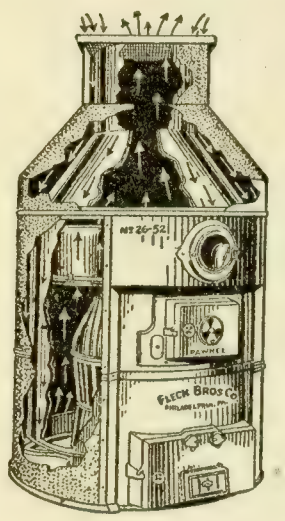
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August 11, 1920

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As The Editor Sees It

IN the last week's issue of the GUIDE we printed some interesting views concerning the "open vs closed shop" controversy. The views presented were those held by business and laboring men, and related to the practical concrete points involved in the argument.

There is, however, a still larger side to the question, which concerns more than the rights of the laboring man, or the employer, or the public. This side involves the basic principles of American democracy, and it is the vast and lasting importance of these principles, which demand that this question be settled now in a way which conforms to and upholds these principles.

At a recent convention of the National Manufacturers' Association, Professor G. W. Dyer, head of the department of political economy, Vanderbilt University, Nashville, Tenn., presented logical and indisputable arguments for "Open Shop," viewed from the theoretical standpoint.

American democracy, said Mr. Dyer, as conceived by the founders of this government, has a much broader scope than that which comes within the bounds of political theory. It is a theory of social life, educational life, religious life, and industrial life, as well as a theory of political life. But in the early years of our national life we were almost exclusively an agricultural people and had no serious industrial problem. Under such conditions, it is not strange that little attention was given to the interpretation of the American theory of industry activities.

We have been trying to do an impossible thing. We have been trying to fuse European socialism with American democracy. This attempted fusion has been brought about partially by certain well-meaning people made up of social reformers, social workers, sentimental university professors, generally "made in Germany", and progressives. The time has now come when it is of the very greatest importance for us to define for ourselves the meaning of American democracy as applied to industry, and to draw the line between the American theory of industrial life and the socialist theory.

SOCIALISM AND DEMOCRACY WON'T MIX

For the guidance of the individual in the field of freedom, and for the regulation of production, the founders of American democracy depended on two economic laws: The law of supply and demand, and the law of competition. When wages are relatively low in one industrial field, it is an indication that there are relatively too many workers in that field, and that a readjustment should be made. It is equivalent to hanging up a sign on the door that men seeking a livelihood should go to other fields, where the demand for work is greater. In most cases, this adjustment will be made under a system of individual freedom and individual responsibility in a comparatively short while by turning the stream of boys and young men just beginning their life work to other fields, and in this way wages are automaticlly restored to normal in the over-crowded industry. The essence of the theory is that workers acting from self-interest and using ordinary intelligence will adjust themselves to the places where their work is in greatest demand, and by competition with other workers will rise to positions commensurate with their capacity. The regular working of this system tends to bring about the maximum production, the greatest possible efficiency and the largest possible compensation to the workers.

We have injected into our industrial system the theory borrowed directly from socialism that the worker must be taken care of where he happens to be employed, by some sort of compulsion brought to bear on those for whom he works. That is, that his income must be regulated on the basis of his needs, arbitrarily fixed, and that the employer or society at large or both, should be forced to meet his requirements.

AMERICAN DEMOCRACY MEANS INDIVIDUALISM

It was this socialist theory that was back of the Adamson law. It is this theory that is back of the minimum wage

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movement. It is this socilistic theory that is back of the closed shop and the strike, and strange to say, this socialist theory, that industries must be made to pay employes arbitrarily fixed living wages, has been accepted by those high in authority in Washington in both parties, and is used as the basis of settling industrial disputes.

American democracy does not and cannot in the very nature of the case guarantee anybody any sort of income anywhere. To do this is to overthrow our whole system and completely put out of commission every piece of regulating machinery we have. If we adopt the theory that industry must be compelled to pay a living wage, we take the responsibility from the shoulders of the individual to find the place of his greatest efficiency, and hence the place of his greatest income, and say to men in overcrowded industries, "Stay where you are, your income is independent of the law of supply and demand. However overcrowded the industry, your wages will be kept up to standard by compulsion. You can solve the problem of over-production by doing less work." And instead of such industries turning men away who could ordinarily enter, they become more attractive because of the promise of less work at the same pay. Such a system tends to destroy efficiency, cut down production and bring about industrial chaos and a complete overthrow of the American system. It is not meant that the theory of American democracy is the old theory *"laissez faire."* It was well known that evils would arise under the American system, or any other system of freedom that would not adjust themselves. Certain restrictions and certain regulations are necessary, but the restrictions and regulations must be consistent with our fundamental theory, not antagonistic to it. They must seek to perfect the system, not to destroy it.

Closed Shop Inimical to Americanism

The result is that we can't cut anything, and more than this, we are destroying the cloth. American democracy as a system of industrial life is thoroughly logical and consistent, and socialism taken as a whole, bad as I believe it to be, as a system, is logical and consistent. But a combination of American democracy and socialism is no system at all.

In order to put in operation and keep in operation this socialistic principle of fixing wages by compulsion, the strike is the one essential weapon, and the efficiency of the strike depends upon the maintenance of the closed shop. You can hardly conceive of a more un American, a more anti-American institution, than the closed shop. It is really very remarkable that it is allowed to exist by the sanction of law under the American flag. It tramples under foot the most sacred rights and privileges of the American citizen and sets itself openly and defiantly against that freedom for which the Anglo-Saxon has been struggling and fighting for centuries. The most sacred right and privilege that American democracy guarantees to the American citizen is the right to work anywhere under the American flag without fear and without molestation, and the right to sell the products of his labor, or sell his labor, or buy the products of the labor of others on an open market, absolutely unrestricted, at the best possible price.

They are not allowed to enter the markets they have arbitrarily circumscribed, and their fixed policy is to drive them out of every market in the country. They prohibit the employer from buying labor, or the products of labor, on an open market. He must get permission from them before he can employ anyone and he must discharge any employee in his factory, however valuable and however satisfactory, when they order him to do so. They deny to the employer, as well as to their own men, the right of freedom of contract. They prohibit the employer from entering into any sort of contract with any one of his employes. They prohibit the employer from dealing with his employes as men at all.

Strike Is a Minority Conspiracy

Up to a very short while ago practically every community in this country was self-sustaining. The country was composed of thousands of small communities, each largely independent of the others in essentials, and in a position to live without much assistance from the others. But, when the industrial revolution brought on by the application of steam to machinery and transportation struck this country, these simple conditions of industrial life passed away and we were transformed from a state of group independents to a state of group dependents. Through the workings of the division of labor made possible by the new industrial order, large scale production superseded small scale production and people everywhere were drawn in from isolated independent communities to become a part of a great industrial organism. This brought about a division of workers into a number of large groups, each group giving all of its time and energies to the performance of a fractional part of the great socialized productive process, and each group exchanging its work in its highly specialized field for its pro rata of finished goods into whose production the work of a hundred co-ordinate groups has gone. This means that each group is dependent on the work of the other groups for its life, and the life of the whole is dependent upon the functioning of each group in a specialized field. Industrial society under this new order has become a social organism.

The strike is not the exercise of any legitimate right guaranteed to the individual under American democracy. It is a conspiracy on the part of a small minority to throw the whole social organism into jeopardy and thus, by terrorism and threats against the innocent, force society to meet its arbitrary demands.

(Continued on Page 727.)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Building (alts.), 241 Chestnut street, Philadelphia. Architect, A. D. Austey, 162 West Twentieth street, New York City. Owners, James F. Ehite Co., 12 South Orianna street, Philadelphia. Terra cotta block walls, elevator shaft, steel frame, fire doors, kalamein doors, skylight, elevator. **Architect taking** bids due as soon as possible. Smith-Hardican Co., 1606 Cherry street, is figuring.

Residence (alts.), Germantown avenue and Mermaid Lane, Chestnut Hill. Architect, H. L. Duhring, 1218 Chestnut street, Philadelphia. Owner, Dr. George Woodward, North American Building, Philadelphia. Stone, 2½ stories, remodeling, carpentry, mill work, painting, plastering, tin roof (heating, electric light, plumbing, electric fixtures and hardware reserved). Architect has received bids.

Building (fire repairs), 127 North Fourth street, Philadelphia. Architect, private plans. Owner, Morris Kifferblatt, 240 North Fourth street, Philadelphia. Carpentry, mill work, electric work, plumbing, plastering, new wood tank, tin and slate roofing, slag roofing. Owner taking bids due as soon as possible from Tourison & Tourison, 1011 Chestnut street.

Building (alts.), Southeast Corner Twelfth and Chestnut streets, $100,000. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, name withheld. Alterations to third, fourth and fifth floors, office partitions, pine floors, elevators, electric lighting, plastering, mill work, carpentry. Architect has received bids.

Office (alts.), Broad and Spring Garden streets, Philadelphia, $6,000. Architect, private plans. Owner, Baldwin Locomotive Works, 500 North Broad street, Philadelphia. Addition to present vault. Owners will build.

Residence (alt.), 1626 Franklin street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Samuel Englander, Crozer Building, Philadelphia. Carpentry, mill work, hardwood floors, iron work, metal lath, plastering, tile and marble work, roof repairs, plumbing, painting, glazing (heating and electric work reserved). Architect has received bids.

Building (alt.), Fifth and Arch streets, Philadelphia. Architect (engineer), E. A. Bump, 60 North Market street, Boston, Mass. Owner, A. C. Lawrence Leather Co., Boston, Mass. Brick, cement and cast stone, linoleum, metal lath, elevator, electric lighting, fire and kalamein doors, iron work (heating and elevator reserved). Owners have received bids.

Dwellings (2) (alts. and add.), 616-18 South Broad street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, Diocesan Church of St. Mary, on premises. Brick, 2 stories, 18x14 feet, Barrett roof and tin roof, pine floors, stone foundations, iron work (heating reserved). Architects have received bids.

Garage, 2453-55-57 North Park avenue, Philadelphia, $10,000. Architect, private plans. Owner, George E. Noll, 2352 North Thirteenth street, Philadelphia. Brick, 1 story, 48x100 feet, slag roof, cement floor, electric lighting, steam heating. Owner will build.

Warehouse, Guilford avenue and Saratoga street, Baltimore, Md. Architects, Haskell & Barnes, 301 North Charles street, Baltimore, Md. Owners, Whitaker Paper Co., 415 Guilford avenue, Baltimore, Md. Reinforced concrete, 8 stories, 100x186 feet, slag roof, electric lighting, rolled steel sash, rolling steel doors, plumbing. Architects taking bids due August 12th. J. S. Rogers Co., Drexel Building, Philadelphia, is figuring.

Sales and Service Building, 661 North Broad street, Philadelphia. Architects, MacKenzie, Wiley & Frid, Liberty Building, Philadelphia. Owners, J. G. Duncan, Jr., Co., 1228 Race street, Philadelphia. Brick and steel, 2 stories, 18x100 feet, slag roof, oak, maple and terrazzo floors, metal lath, iron work, hollow metal skylights, electric lighting, steam heating, stone foundations. Bond. Architects taking bids due August 16th. Wills-Ludwick Co., 34 South Seventeenth street; Thomas C. Trafford, 1613 Sansom street; Frank Lucci, 1603 Ellsworth street; H. F. Dinkelacker, 1612 McKean street; Ketcham & McQuade, 1029 Broad street, and C. H. Turnbull, 512 Bulletin Building, are figuring.

Store Building (alts.), Broad and Erie avenue, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owner, William Friehofer, Tenth and Indiana avenue, Philadelphia. Changing present building to stores, carpentry, mill work, electric work, painting, glazing. Will be ready for bids in a week.

Bank Building, 901-03 Walnut street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Abe Kolsky & Co., 730 South Fifth street, Philadelphia. Brick, steel and limestone, 2 stories, 120x48 feet, slag roof, pine, oak and composition floors, metal lath, roof ventilators, hollow metal skylights, iron work, tile and marble work, steam heating, electric lighting, stone foundations. Bond. Architect taking bids. William R. Dougherty, 1610 Sansom street; Standard Const. Co., 1713 Sansom street; A. R. Raff Cont. Co., 1635 Thompson street; Lam Building Co., 1001 Wood street, and H. H. Wehmeyer, 509 West Cumberland street, are figuring.

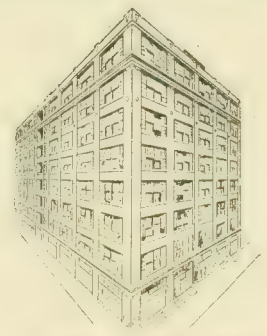
Dwellings (7) (repairs) and (2) Garages, 1233-35 Bainbridge street. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Joseph W. Salus & Co., Thirteenth and South streets, Philadelphia. General repairs to dwellings, 3 stories, garages, galvanized and structural iron, 1 story, 14½x56 feet and 16x38 feet. Architect taking bids due August 13th. John Schnable Co., Denckla Building; Henry P. Schneider, 3713 Old York road, and J. D. Fisher, 5426 Thompson street, are figuring.

Stores and Dwellings (alts.), Ninth and Locust streets, Philadelphia. Architects, Tunis & Genther, Real Estate Trust Building, Philadelphia. Owner, Don Levin, on premises. Brick work, carpentry, mill work, pine floors, iron work, slag roof, hot water heat, plastering, marble and tile work, electric lighting. Bond. Architects have received bids.

Store and Warehouse, 704-06-08 South Sixth street, Philadelphia. Architect, Max A. Berhardt, 721 Walnut street, Philadelphia. Owner, Coroneos Bros., on premises. Reinforced concrete and steel, 4 stories, slag roof, cement floors, hollow tile, waterproofing, iron work, rolled steel sash. Revised plans in progress.

Building (repairs), Frankford avenue, North of Palmer street, $6,000. Owner, General Electric Co., on premises. Rebuilding of wall damaged by freight car, brick and concrete. Pennsylvania Railroad Co., Broad

Murphy Painted

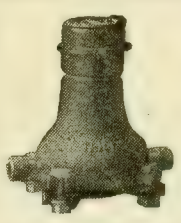


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Street Station, Philadelphia, will build.

Store (alts.), Erie avenue and Germantown avenue, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owner, United Cigar Store Co., Fifteenth and Chestnut streets, Philadelphia. Carpentry, hardware, plastering, plumbing, painting, glazing, metal lath, tile work, iron and steel work, marble work, glazing (electric work and mill work reserved). Owners have received bids.

Property (improvements), 1710 Walnut street, Philadelphia. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Lena Elfman, 1421 Walnut street, Philadelphia. Brick work, plastering, painting, glazing, tin roof, composition and pine floors, vapor heating, electric lighting, tile and marble work, iron work. Bond. Architect has received bids.

Power Plant, Stenton avenue and Rockland street, Philadelphia. Architect, Stewart A. Jellett Co., Real Estate Trust Building, Philadelphia. Owner, Ferguson Carpet Co., Stenton avenue and Rockland street, Philadelphia. Brick and concrete and steel, 1 story, 74x40 feet, slag roof, cement floors, roof ventilators, rolled steel sash, stone foundations. Bond. Engineer taking bids due August 14th. Barclay White Co., 1713 Sansom street; Cramp & Co., Denckla Building; R. M. Peterson, 5114 Germantown avenue; Roydhouse-Arey Co., 112 North Broad street; Warren-Moore Co., Colonial Trust Building; John N. Gill Co., Otis Building; H. John Homan, 34 South Seventeenth street; F. A. Havens Co., 845 North Nineteenth street, and Hughes-Foulkrod Co., Commonwealth Building, are figuring.

Residence (alts.), 237 South Forty-fourth street, Philadelphia, $3,500. Architect, private plans. Owner, W. A. Evitts, 5022 Chancellor street, Philadelphia. General interior alterations, electric lighting, hot water heat. Owner will build.

Residence (alts. and add.) to Apartments, 1431 Diamond street. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, S. Stein, care of architect. General interior alterations, roof repairs, hardwood floors, hot water or vapor heating, electric lighting, plumbing. Plans in progress. Architect will be ready for bids in a week.

Garage, rear of 3922 Girard avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, H. Hoffman, on premises. Brick, 1 story, slag roof, cement work, electric lighting. Plans in progress.

Store and Dwelling (alts.), 2027 Ridge avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, A. Glaberson, care of architect. General interior alterations, electric lighting, new front. Plans in progress. Will be ready for bids in a week.

Office Partitions, Palethorp and Turner streets, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Keystone Spinning Mills Company, 1631 North Second street, Philadelphia. Architects taking bids. Wm. R. Dougherty, 1610 Sansom street; Ketcham & McQuade, 1029 Brown street, and Monaghan & Losse, Inc., 3016 Chestnut street, are figuring.

Club House, Roxborough, Philadelphia. Architect, J. S. Fuller, 1537 Chestnut street, Philadelphia. Field office, 6937 Ridge avenue, Philadelphia. Owners, Green Valley Country Club, Roxborough, Philadelphia. Holmesburg granite, 2 story addition, 50x80 feet, trussed prepared roof, hardwood and maple floors, mineral wool, dumbwaiter, plastering, electric wiring and fixtures, tile work, steam heating, millwork, gravel walks. Working plans in progress. Architect will be ready for sub-bids in one week. Plans may be seen at field office, 6937 Ridge avenue, Philadelphia.

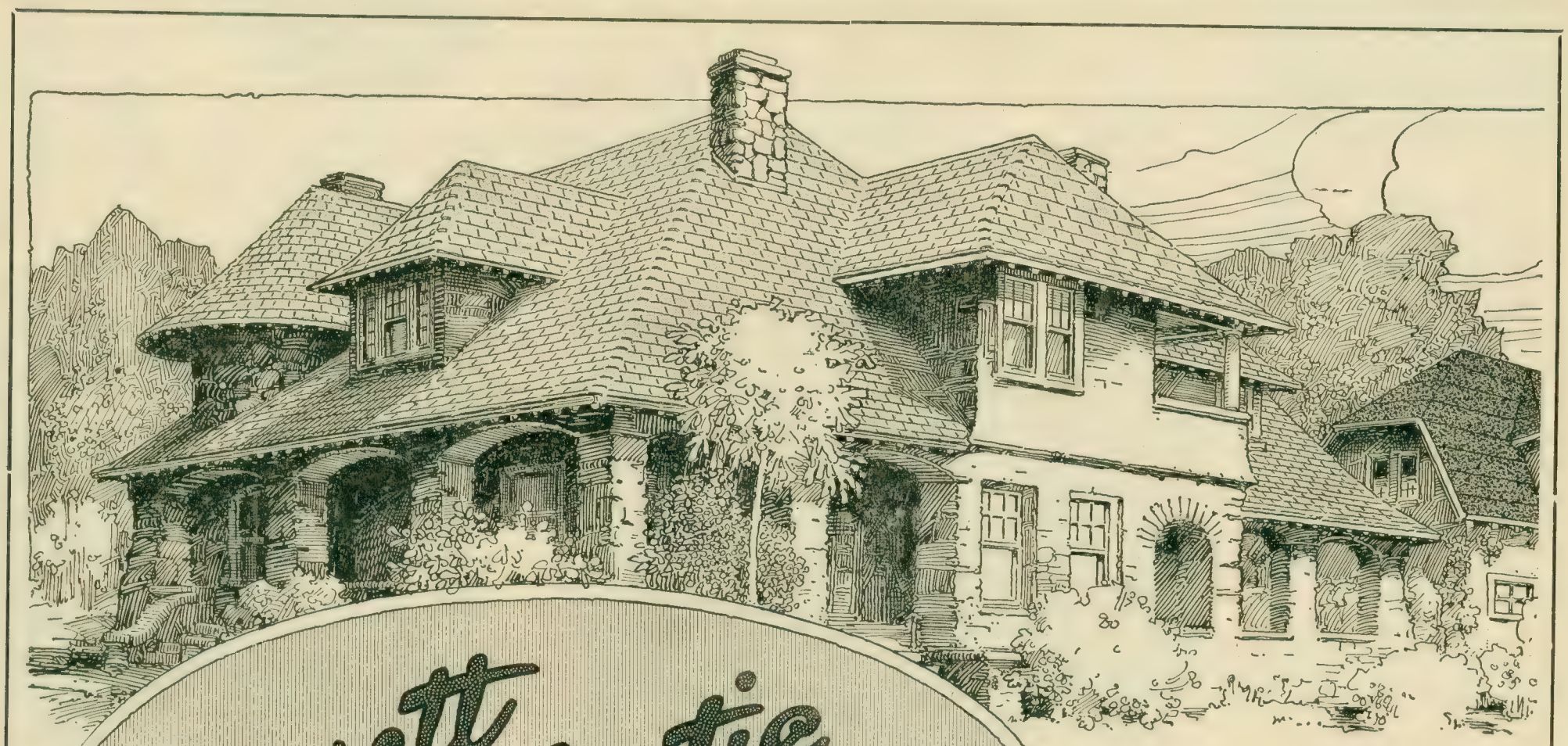
Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory (add.), Northeast Corner Gillingham and Hedge streets, $10,000. Architect, private plans. Owner, Flint Dental Mfg. Co., on premises. Brick and steel, 2 stories, 27x52 feet, slag roof, cement and pine floors, rolled steel sash (heating and electric work reserved). Contract awarded to the Austin Co., Bulletin Building, Philadelphia.

Residence (add.), Southampton road, North of P. & R. R. R., Philadelphia, $6,000. Archi-

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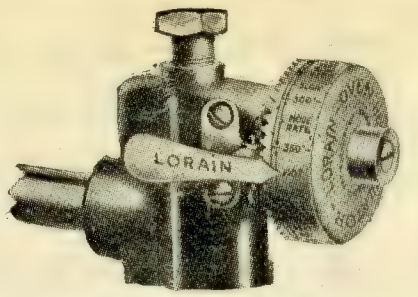
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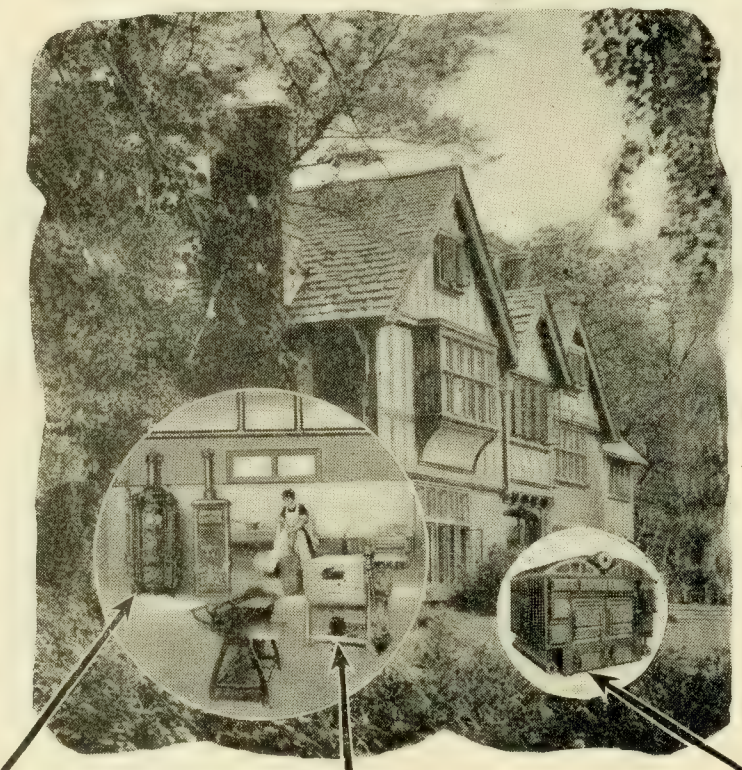


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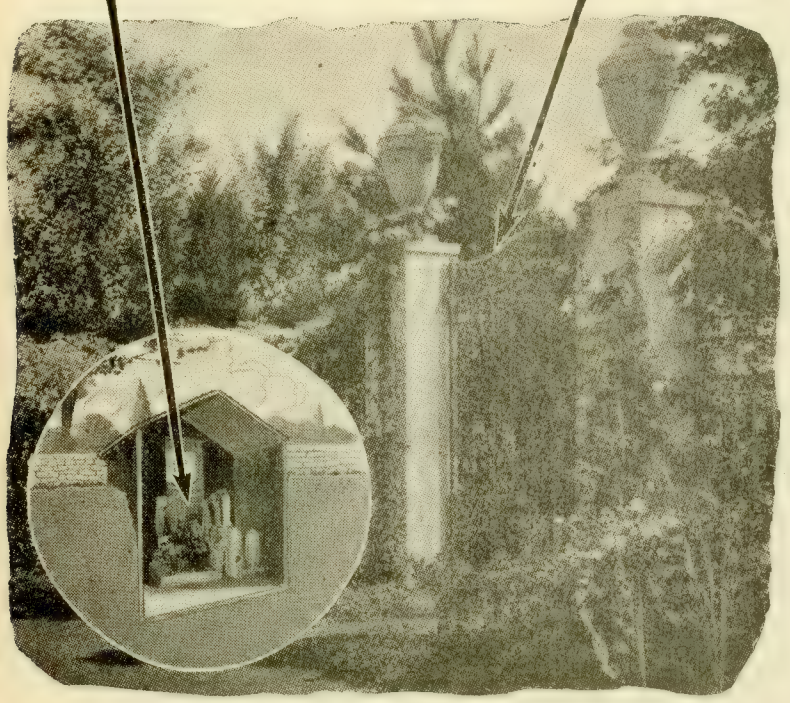
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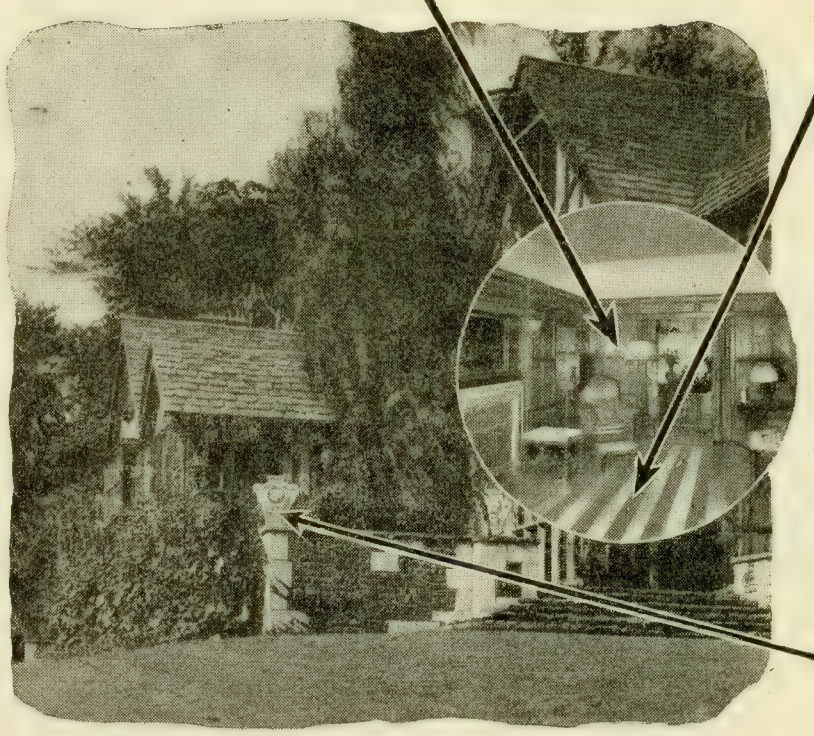
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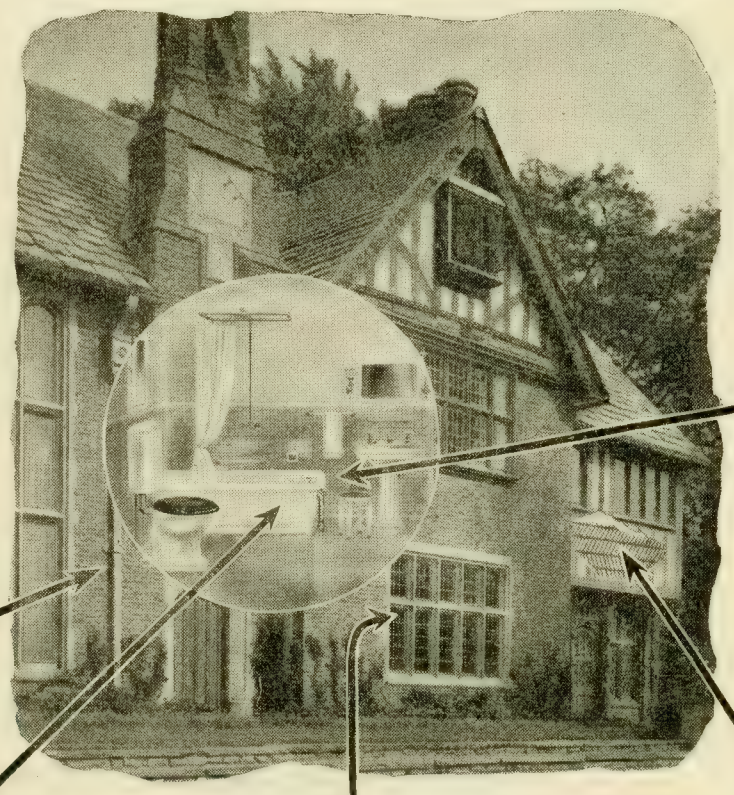
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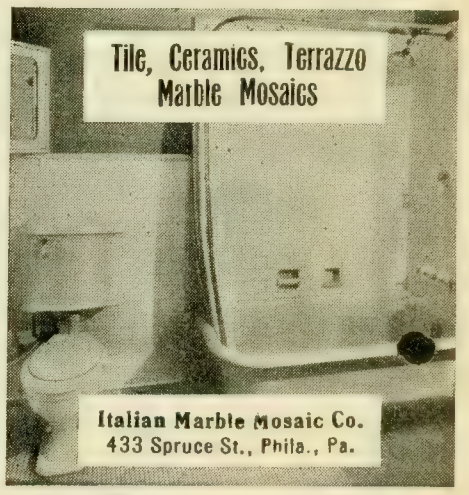
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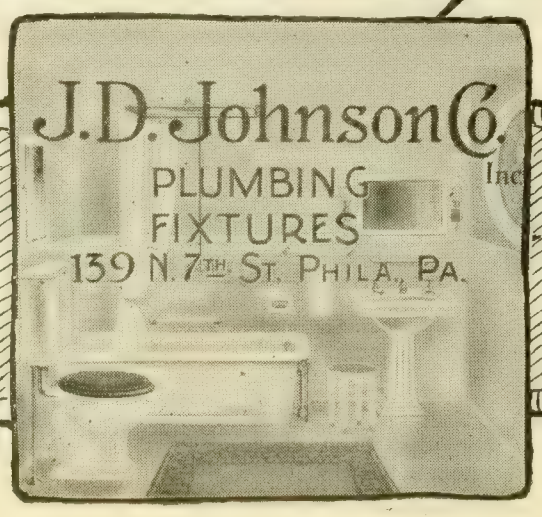


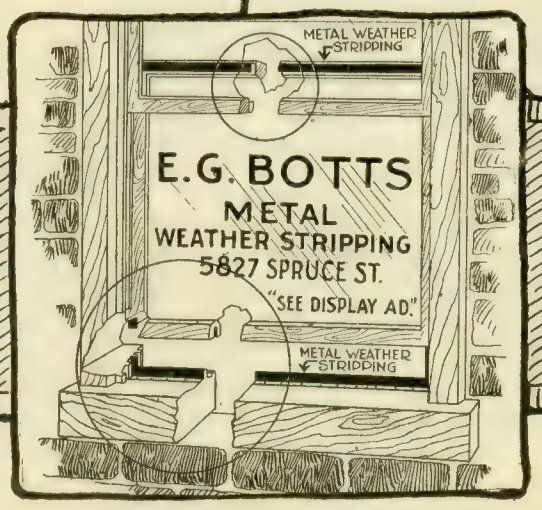




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tect, private plans. Owner, Joseph Trainor, Somerton, Pa. Stone, 2 stories, 21½x24 feet, slag roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Cunningham & Bartholomew, 4326 Paul street, Philadelphia.

Stores and Dwellings (2), 4816-18 Woodland avenue, Philadelphia, $6,000. Architect, private plans. Owner, Isaac Brooks, 4546 Baltimore avenue, Philadelphia. General alterations, new front, electric lighting, tile work ,hardwood floors, hot water heating. Contract awarded to Israel Staller, 328 Wolf street, Philadelphia.

Garage (add.), Spring street, between Tenth and Eleventh streets, Philadelphia, $16,000. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Thomas R. Humphrey, on premises. Brick, steel and terra cotta, 2 stories, 33x81 feet, slag roof, cement and pine floors, iron work, electric lighting, rolled steel sash, stone foundations (heating reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Residence, 151-53 North Gross street, Philadelphia, $9,000. Architect, private plans. Owner, Carmine Martino, 1206 South Eleventh street, Philadelphia. Stone, 3 stories, 27x39 feet, slag roof, electric lighting, hot water heating, tile and marble work, hardwood floors. Contract awarded to M. F. Martino, 1206 South Eleventh street, Philadelphia.

Storage Building, Northeast Corner Eighth and Locust streets, Philadelphia. Architect, LeRoy B. Rothchild, 1225 Sansom street, Philadelphia. Owners, Elgin Realty Co., 1001 Filbert street, Philadelphia. Brick, 1 story, 72x166 feet, slag roof, maple and composition floors, stone foundations, steam heating, rolled steel sash, hollow metal skylights, dampproofing, iron work, metal lath. Contract awarded to D. Henwood, 717 South Sixty-third street, Philadelphia.

Auto Shop, Southwest Corner Twelfth and Pearl streets, Philadelphia, $25,000. Architect, private plans. Owner, Charles S. Jarvis, 1217 Vine street, Philadelphia. Brick and steel, 1 story, 44x108 feet, wing 14x84 feet, slag roof, electric lighting, cement floor, steam heating. Contract awarded to Gourley Const. Co., Twenty-first and Ridge avenue, Philadelphia.

Residence (alts.), 2125 Locust street, Philadelphia, $5,500. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Miss L. C. Harrison, 2123 Locust street, Philadelphia. New bay windows, mill work, pine floors and interior alterations. Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

Dairies, Kensington avenue and Hunting Park avenue, Torresdale, Philadelphia. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Harbison Dairies, Front and Diamond streets, Philadelphia. Brick and steel, power house, 2 stories, 96x48 feet, wing 16x32 feet, stable, 2 stories, 144x80 feet, main building, 2 stories, 80x41 feet, slag roof, cement and terrazzo floors, metal lath, rolled steel sash, steel doors, waterproofing, iron work (heating, electric work and plumbing reserved). Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Radial Stack, Southeast Corner Lena and Collom streets, Philadelphia, $1,000. Owner, D. F. Waters, on premises. Brick, 150 feet high. Contract awarded to Kellogg & Co., New York City.

Residence (alts. and add.), 4049 Girard avenue, Philadelphia, $4,000. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Miss Marcella Zolalia, 4052 Girard avenue, Philadelphia. Stone and brick, 1 story, 22½x18 feet, slag roof, hot water

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heat, electric light, tile and marble work, metal ceilings, metal lath. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Bank Building, Ridge avenue and Diamond street, Philadelphia, $50,000. Architects, private plans. Owners, Citizens' Bank, 22 South Third street, Philadelphia. Brick, terra cotta and stone, 1 story, 45x40 feet and 40x11 feet, slag roof, composition and tile floors, metal lath, electric light, steam heat. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

Office, Shop and Garage, Rising Sun avenue and Adams road, Building No. 15, $192,000. Architect, private plans. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue. Reinforced concrete and brick, 3 stories, 220x55 feet, Carey roof, steam heat, electric light, maple and cement floors, rolled steel sash. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Building (alts.), Southeast Corner Beach street and Columbia avenue, Philadelphia, $12,000. Owners, Columbia Avenue Pier Co., on premises. Strengthening floors, brick elevator shaft and elevator. Contract awarded to George Kessler Cont. Co., Drexel Building, Philadelphia.

Warehouse, C street, North of Westmoreland street, Philadelphia, $8,000. Owners, Nicetown Dye Works, on premises. Brick, 2 stories, 150½x33½ feet, slag roof, steam heat, electric lighting, cement floors, rolled steel sash. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Dwelling and Store (alts. and add.), 2436 South Seventh street, Philadelphia, $2,300. Architect, private plans. Owner, Fred Gitterman, Fifth and Federal streets, Philadelphia. Brick, 2 story add., 15x6 feet, slag roof, electric lighting. Contract awarded to I. Farlstein, 917 Ritner street, Philadelphia.

Gymnasium (alts.), 4226 Baltimore avenue, Philadelphia, $8,000. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Burd School, care of Rector Church Warden, St. Stephen's Church, Tenth above Chestnut street, Philadelphia. Carpentry, millwork, painting, hardware, pine floors, iron work. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Dwelling (alts.), 1815 Delancey street, Philadelphia, $6,000. Architect, private plans. Owner, A. H. Scott, 928 Clinton street, Philadelphia. Carpentry, millwork, plumbing, electric work, hot air heating, plastering. Contract awarded to A. MacTavish, 1515 Pine street.

Residence, 433 Ashdale street, Philadelphia, $3,500. Architect, private plans. Owner, Daniel R. Farmer, 5725 Beechwood street, Philadelphia. Brick, 2 stories, 15x40 feet, hot water heating, electric lighting. Contract awarded to Ed. V. Farmer, 5725 Beechwood street, Philadelphia.

Warehouse (alts.), northwest corner of American and Dauphin streets, $3,000. Architect, private plans. Owners, Michell Company, 518 Market street, Philadelphia. Changing portion of warehouse into garage. Contract awarded to C. S. Haverstick, 845 North Nineteenth street, Philadelphia.

Residences (3) to Apartments, 2301-2322-2324 North Park avenue, Philadelphia. Architect, Frank E. Hahn, Inc., Denckla Building, Philadelphia. Owner, Dr. D. Hyman, Ninth and Market streets, Philadelphia. Brick and cut stone, rear addition, 3 stories, 16x8 feet. Garage, 1 story, 16x9 feet, and 3 stories, 14x12 feet, slag roof, oak, cement and pine floors, metal lath, roof ventilators, waterproofing, dampproofing, iron work, hollow metal skylights, tile and marble work, stone foundations. Contract awarded to Kober

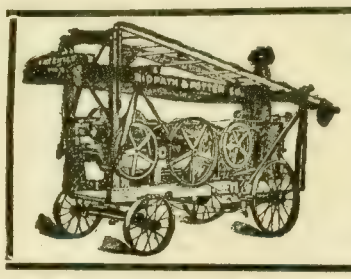


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Pennsylvania Construction News

Community Building, St. Lawrence, Penna. Architect, H. Maurer, 226 Fifth street, Reading, Pa. Owner, care of architect. Stucco, 1 story and basement, 75x75 feet. Too early for details.

Bakery (add.), Reading, Pa. Architect, A. F. Smith, Sixth and Court streets, Reading, Pa. Owner, Kolb Baking Co., on premises. Brick, 1 story, 40x80 feet, stone foundations, steel roof, cement floors, electric light. Architect will take bids in two weeks.

Store Building, Pottsville, Pa. Architect, H. Maurer, 226 Fifth street, Reading, Pa. Owner, S .S. Weiss, Pottsville, Pa. Steel, terra cotta, 30x90 feet, concrete foundations, slag roof, steam heat, electric light, tile and marble work, metal lath, roof ventilators, hollow metal skylights. Owner taking general bids due August 16th. Gordon Nagle, C. Mercer Smith, O. J. Aregood, Wertley Houser, all of Pottsville, Pa., are figuring.

Residences (10 twin), Silver Creek P. O., Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Reliance Coal Mining Co., on premises. Bishopric lath, 2 stories, 20x36 feet, 28x20 feet, composition roof, pine floors, electric light. Architect has received bids.

Dining Room and Office Partitions, Marcus Hook, Pa. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Viscose Co., Marcus Hook, Pa. New partitions, mill work. Architect taking bids due Aug. 16th. William Provost, Jr., Chester, Pa.; Fred V. Yeager, 9 South Thirty-sixth street; John Sjostrom Co., 1715 North Tenth street, and Blairer Woodworking Co., 1111 West Westmoreland street, are figuring.

Cow Barn, Spring City, Chester County, Pa. Architect, Philip H. Johnson, Presser Building, Philadelphia. Owner, Board of Commissioners of Public Grounds and Buildings, Capitol Building, Harrisburg, Pa. Concrete, hollow tile and steel, 2 stories, 233x37 feet, wing 108x30 feet, slag and asbestos shingle roof, cement and wood block floors, hollow tile, metal lath, elevators, roof ventilators, dampproofing, iron work, rolled steel sash, electric lighting, stone foundations. Bond. Owners taking bids due August 24th. Frank G. Stewart, 1619 Sansom street; John R. Wiggins & Co., Otis Building, and Wills-Ludwick Co., 34 South Seventeenth street, Philadelphia, and Frank H. Kaiser, Pottstown, Pa., are figuring. (Deposit $30.00.)

Residence and Garage, Villa Nova, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut streets, Philadelphia. Owner, Mrs. W. C. Hunneman, Jr., Twenty-first and Locust streets, Philadelphia. Frame and plaster, 2½ stories, 98x49 feet, and 1½ stories, 35x24 feet, slate roof, oak, pine, cement and tile floors, electric lighting, stone foundation (heating and plumbing reserved). Bond. Architects taking bids due August 16th. William R. Dougherty, 1610 Sansom street, Philadelphia; Gray Bros., Rosemont, Pa., and Charles C. Pace, Merion, Pa., are figuring.

Palace Theatre (alts. and add.), Main street, Coatesville, Pa. Architect, R. A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, Logges Bros., 258 East Main streets, Coatesville, Pa. Brick and steel, 1 story, 40x110 feet, slag roof, cement floors, metal lath, stone foundations, steam heat,

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electric lighting, tile work, iron work. Plans in progress.

Grand Hotel (alts. and add.), Main street, Coatesville, Pa. Architect, R. A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, Isaac Foreman, 205 Main street, Coatesville, Pa. Brick and steel, 1 story, 30x100 feet, slag roof, maple floors, metal lath, tile and marble work, electric lighting, vapor heating, stone foundations. Plans in progress.

Residences (2), Bala, Pa. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owner, name withheld. Stone, frame and stucco, 2 stories, 28x35 feet, shingle roof, pine floors, cement work, stone foundations, electric lighting, caloric heating. Plans in progress. Owner, care of architects, will take sub-bids in two weeks.

Residence (alts.) to Apartments, Oakmont, Pa. Architects, Tunis & Genther, Real Estate Trust Building, Philadelphia. Owner, D. F. Ryan, 5916 Market street, Philadelphia. Frame and stucco, 3 stories, 35x80 feet, shingle roof, electric lighting, repairs to floors (plumbing reserved). Revised plans in progress.

Factory, Bachman Terrace, Allentown, Pa. Architect, R. A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owners, Allentown Rubber Co., on premises. Brick and steel, 3 stories, 62x130 feet, stone foundations, steam heating, electric lighting, rolled steel sash, safety treads, roof ventilators, cement floors, iron work. Owners are taking sub-bids.

Store (alts.), Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Harry Renninger, Glenside, Pa. Lowering floors, new bulks, marble work, painting, glazing, plastering, carpentry, mill work, electric lighting. Contract awarded to Albert Zellfelder, 151 South Broad street, Philadelphia.

Church and Sunday School, York, Pa. Architects, Hamm & Whitman, City Bank Building, York, Pa. Owners, Fourth U. B. Congregation, care of architects. Brick, 2 stories, 100x80 feet, composition roof, maple floors, electric lighting, hollow metal skylights. Plans in progress.

Memorial Bridge, Harrisburg, Pa. Architect, A. W. Brunner, 101 Park avenue, New York City. Engineer, J. E. Greiner, Fidelity Building, Baltimore, Md. Owners, State of Pennsylvania, Department of Public Grounds and Buildings, care of Mr. Shreiner, Superintendent, Capitol Building, Harrisburg, Pa. Granite, stone and concrete, concrete foundations, 80 feet wide, 2,687 feet long, waterproofing, iron work, electric lighting. Owners taking bids, due September 28th (revised). Central Const. Co., Harrisburg, Pa., is figuring.

Bath House, Harrisburg, Pa., $40,000. Architects (associated), W. H. Manning, Boston, Mass., and Laurie & Lappley, Harrisburg, Pa. Owners, City of Harrisburg, care of City Commissioner Gross, Calder Building, Harrisburg, Pa. Reinforced concrete, 1 story, 160x32 feet, Spanish tile roof, cement floors, electric lighting, plumbing. Revised plans in progress.

Bungalow, Honeybrook, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Henry Bucher, on premises, Honeybrook, Pa. Frame and stucco, 1 story, 30x50 feet, composition roof, pine floors, concrete block foundations, pipeless heater, electric lighting. Plans in progress. Will be ready for bids in two weeks.

Apartments and Warehouse (alts. and add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, J. Pefhenninger, North Penn street, Lancaster, Pa. Brick, 3 stories, slag roof, pine and cement floors, interior alterations. Archiect will be ready for bids August 16th.

Checking Station, York, Pa. Architect, Edw. Leber, Hay Building, York, Pa. Owners, York Agricultural Society, Mr. Heckert, secretary, York, Pa. Frame, 1 story, 24x32 feet, shingle roof, pine floors, electric lighting. Owners will build.

Hospital (add.), Nurses' Home and Service Building, Lancaster, Pa., $250,000. Architect, M. R. Evans, 10½ Orange street, Lancaster, Pa. Owners, Lancaster General Hospital, care of M. Brigtener, Lancaster, Pa. Brick, 4 stories, 55x40 feet, 2 stories, 40x80 feet, and 2 stories and basement, 50x84 feet, slate and slag roof, hardwood and tile floors, elevators, roof ventilators, metal weatherstrips, fire doors, rolled steel skylights, terrazzo, tile and marble work, electric lighting, stone foundations Architect has received bids.

Pennsylvania Contracts Awarded

Residence, Wyomissing, Reading, Pa. Architect, H. Maurer, 226 Fifth street, Reading, Pa. Owner, S. R. Breneise, 801 Penn street, Reading, Pa. Brick, 2½ stories, 37x40 feet, stone foundations, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to D. Hunter, Reading, Pa.

School (alts.), Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Board of Education, Lansdowne, Pa. Enlarging windows. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Passenger and Freight Station, Shamrock, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Frame, 1 story, 20x45 feet, slate roof, stone foundations. Contract awarded to I. H. Becker, Schuylkill Haven, Pa.

Bank, Shermanstown, Pa. Architects, Laurie & Lappley, Market street, Harrisburg, Pa. Owners, Shermanstown Bank, Shermanstown, Pa., care of Emery Rapp, chairman of Building Committee. Brick and limestone, 1 story, 30x50 feet, composition roof, maple floors, concrete foundations, steam heating, electric lighting, tile work, maple floors, roof ventilators, bank fixtures. Contract awarded to A. W. Hirtzler, Camp Hill, Pa.

Residence, Second street, Harrisburg, Pa., $20,000. Architects, Laurie & Lappley, Market street, Harrisburg, Pa. Owners, Messiah Lutheran Church, care of Rev. Dr. H. W. A. Hanson, on premises. Tapestry brick, 3 stories, stone foundations, electric lighting, tile work, hardwood floors. Contract awarded to John Barnhart, Enola, Pa.

Residence (alts. and add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, R. Clark, care of architect. Brick, 2 stories, 20x25 feet, composition roof, pine and hardwood floors, electric lighting, tile and marble work, new plumbing, general interior alterations. Contract awarded to D. S. Warfel, York, Pa.

Residence, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, York, Pa. Owner, R. Moore, Lititz, Pa. Stucco, 2½ stories, 25x55 feet, slate roof, hardwood floors, tile work, electric lighting. Contract awarded to H. Lehman, Lititz, Pa.

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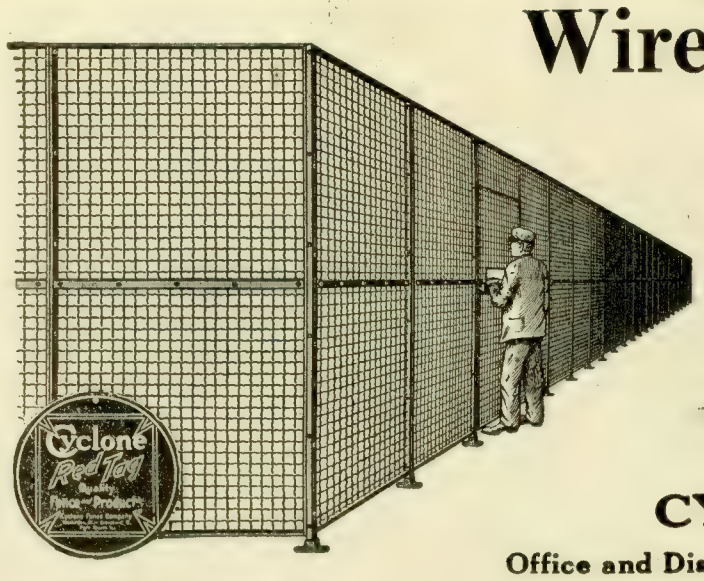
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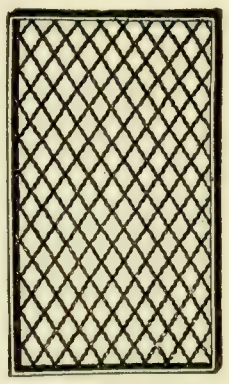


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New Jersey Construction News

Store (alts. and add.), South Broad street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, name withheld. Brick, 1 story, 9x34 feet, slag roof, pine floors, tile work, plate glass, interior alterations. Architect will take bids this week.

Residence, Cadwallader Heights, N. J., $25,000. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, S. J. Owner, S. Urken, on premises. Hollow tile, 2½ stories, 48x44 feet, concrete foundations, tile roof, hardwood floors, hot water heat, electric light. Low bidder, Jackson Bros., Trenton, N. J.

Store (alts.), Broad street, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Fort & Godwin, State street, Trenton, N. J. New store front, plate glass, general interior alterations. Architect taking sub-bids.

Store Room, Federal and Union streets, Trenton, N. J., $8,000. Architect, private plans. Owner, American Bridge Co., on premises. Brick and steel, 1 story, 40x60 feet, concrete foundations, cement and tile waterproof roof, pine floors, electric light. Owners will build.

Time Office and Toilet Building, Federal and Union streets, Trenton, N. J. Architect, private plans. Owner, American Bridge Co., on premises. Brick, 1 story, 16x51 feet and 26x47 feet, slate roof, concrete foundations, pine floors, electric light, interior work, plumbing. Owners will build.

Warehouse, New York avenue, Trenton, N. J., $20,000. Architect, Karno Smith Co., Broad Street Bank Building, Trenton, N. J. Owner, Joseph Ashton, Jr., on premises. Brick, steel, 1 story, 100x40 feet, concrete foundations, slag roof, concrete floors, electric light, rolled steel sash. Architects will build.

Factory (add.), Mead street, Trenton, N. J., $4,000. Engineers, Karno-Smith Co., Broad Street Bank Building, Trenton, N. J. Owner, Hamilton Rubber Co., on premises. Brick, 1 story, 19x33 feet, concrete foundations, slag roof. Architects will build.

Theatre (alts. and add.), Atlantic City, N. J. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owners, Apollo Theatre, on premises. Alterations to lobby, marble work, plastering, painting, mill work, carpentry. Plans in progress. Will be ready for bids in a week.

Building (alts. and add.), Fifth and Federal streets, Camden, N. J. Architect, Joshua C. Jefferies, 1001 Chestnut street, Philadelphia. Owner, G. M. Beringer, Camden, N. J. Brick, concrete, terra cotta and steel, 4 stories, 52x15 feet, slag roof, maple floors, metal lath, roof ventilators, waterproofing, iron work, hollow metal skylights, stone foundations. Bond. Architect has received bids.

Theatre, White Horse Pike, between Audubon and Haddon Heights, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, South Jersey Amusement Co., care of William Congezer, Haddon Heights, N. J. Brick, steel and stone. Preliminary sketches drawn.

Store Building, Broadway and Spruce streets, Camden, N. J. Architect, Philipp Merz, Pennsylvania Building, Philadelphia. Owner, Harry Pinsky & Sons Co., Camden, N. J. Steel, brick, concrete and terra cotta, 4 stories, 144x40 feet, slag roof, maple floors, metal lath, elevators, waterproofing, Peele doors, rolled steel skylights, rolling steel shutters, tile, marble and terrazzo work, electric lighting, steam heating, stone foundations. Bond. Architect taking bids due August 16th. Frank G. Stewart, 1619 Sansom street; H. John Homan, 34 South Seventeenth street; Standard Const. Co., 1713 Sansom street, Philadelphia; J. W. Draper, 436 Haddon avenue; George Hachmann, 19 North Thirtieth street, Camden, N. J.; J. Henry Miller, Baltimore, Md.; Roger Atkinson, Builders' Exchange, Philadelphia; A. R. Raff Cont. Co., 1635 Thompson street, and F. B. Davis & Son, 240 North Sixteenth street, Philadelphia, are figuring.

Store and Office Building, Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Wm. L. Segal, on premises, North Carolina and Atlantic avenues, Atlantic City, N. J. Brick, stone, steel and terra cotta, 2 stories, 140x54 feet, slag roof, B. sap rift floors, dumbwaiter, waterproofing, rolled steel skylights, tile and marble work, electric lighting, stone foundations (heating reserved). Architect taking bids, due August 20th. Standard Const. Co., 1713 Sansom street, Philadelphia, is figuring.

Office and Factory (add.), Ward street, Trenton, N. J., $7,500. Owner, Mueller Machine Co., 21 Ward street, Trenton, N. J. Frame, 1 and 2 stories. 30x15 feet, 14x33 feet, concrete foundations, slag roof. Contract awarded to N. A. K. Bugbee, Trenton, N. J.

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Miscellaneous Construction News

Store Building (alts.), 124 West Baltimore avenue, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Harris Bros., on premises. General interior alterations to entire three story building, new front to first floor, metal bulks and plate glass, pine and hardwood floors, new partitions and stairways (heating, electric work and plumbing reserved). Architect will be ready for bids in a few days.

Shoreman Hotel, Salisbury, Md. Associated architects, Theodore Wells Pietsch and E. H. Glidden, American Building, Baltimore, Md. Owners, Shoreman Hotel Corp., Salisbury, Md. Brick and steel, 5 stories, 149x58 feet, 112x71 feet, slag roof, composition floors, metal lath, roof ventilators, iron work, fire escapes, kalamein doors, rolled steel skylights, tile and marble work, stone foundations (heating, electric work, elevators and plumbing reserved). Architects taking bids, due August 14th. Standard Const. Co., 1713 Sansom street, Philadelphia, is figuring.

AS THE EDITOR SEES IT

(Continued from Page 716.)

It was the open shop policy of American democracy that awakened the genius and inspired the spirits of Andrew Jackson, poor orphan mountain boy; of Abraham Lincoln, the rail splitter; of Andrew Johnson the unlettered tailor; of James A. Garfield, the mule driver; of Andrew Carnegie, the office boy; of Thomas A. Edison, the telegraph operator; and of multitudes of others who have travelled the unobstructed road laid out by the founders of this great government from the bottom to the top. It has been the one great source of hope and inspiration and ambition to American boys, born in poverty and obscurity, from the earliest days of our country. Not in the interest of capital, not in the interest of employers, not in the interest of business primarily, but in the interest of the millions of poor little boys who are hanging on their mothers' aprons as the mothers go about their daily toil and who cannot speak for themselves, let's keep the door of American opportunity open for them and the road unobstructed that they may inherit the priceless privileges bequeathed to them by the founders of American democracy.

Walter F. Price
Architect
136 S. 4th St.
Philadelphia

Aug. 5, 1920

Editor of the
Builders' Guide,
Phila.,

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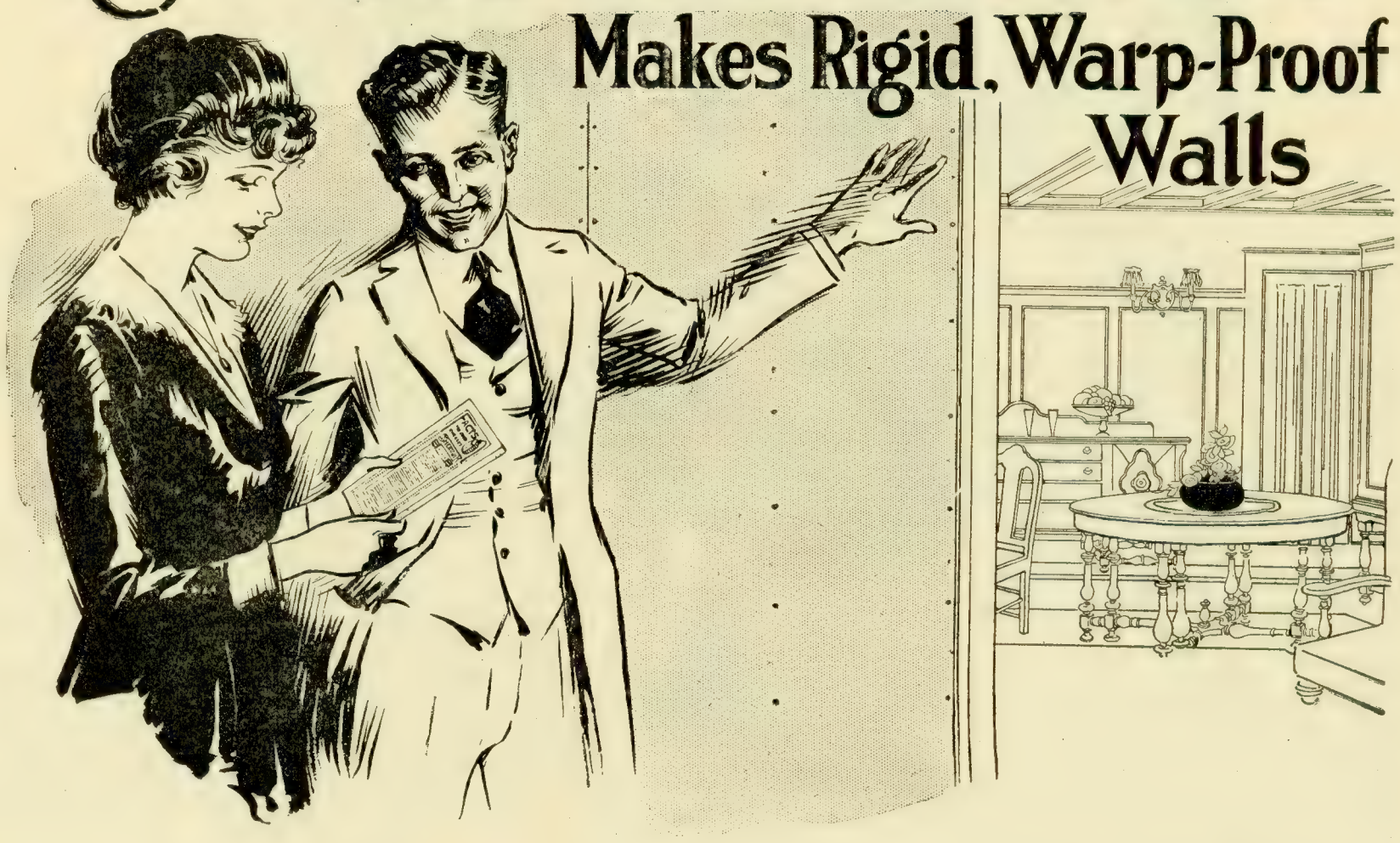
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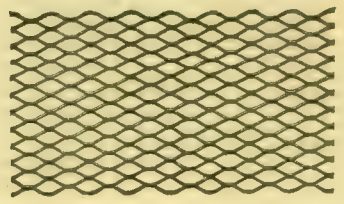
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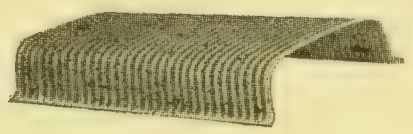
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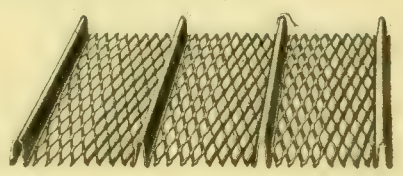
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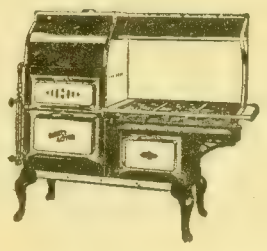
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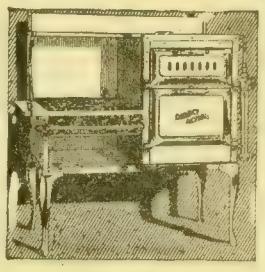


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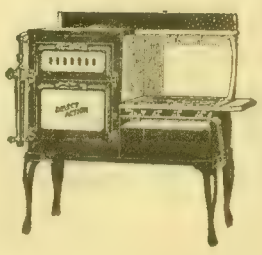
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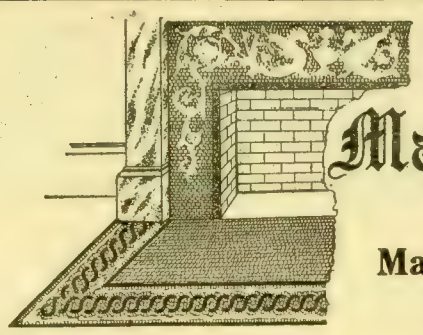
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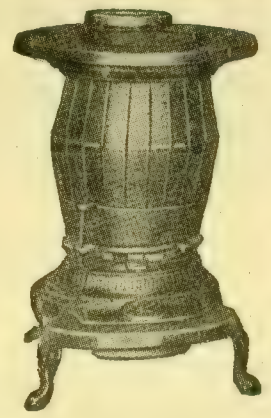
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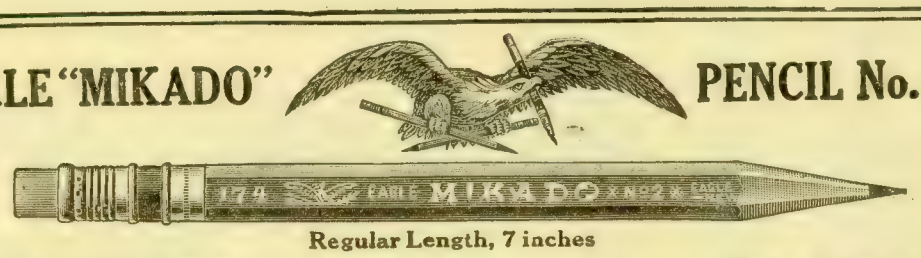
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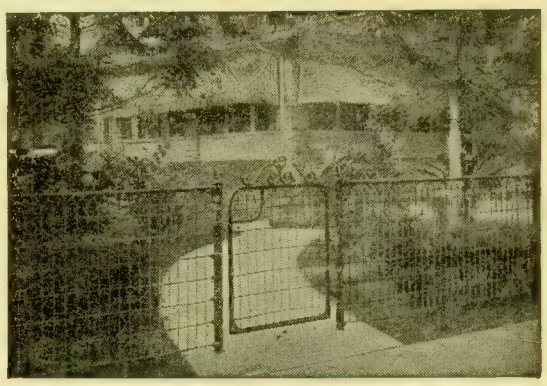
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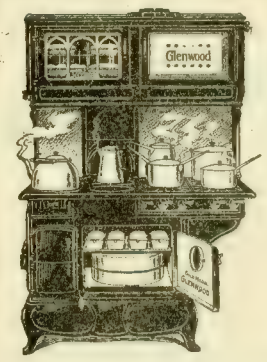
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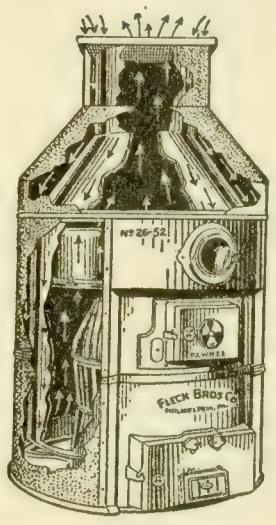


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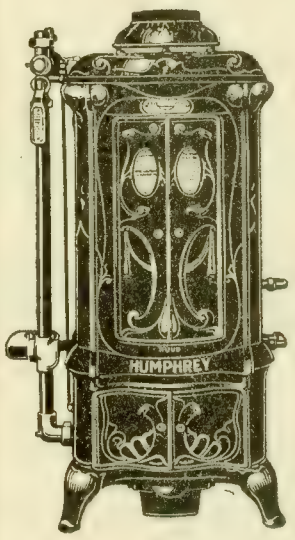
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As The Editor Sees It

ELEMENTS THAT MUST BE CONSIDERED IN COST ESTIMATING

The subject "Cost Estimating" is of unusually wide scope as practically each type of contract work has to be analyzed on its own merits and is subject to special considerations. In all cases, however, the following elements enter and must be given consideration:

Financial Credit
Constructive Skill
Use of plant
Hazard
Profit.

Financial Credit.—The contractor should make a carefully prepared schedule of the amount of money which will have to be invested in the proposed work from the time he signs the contract until his final estimate is rendered, and from such schedule he must determine the amount of interest this money will cost and this amount is a proper charge against the work. If this is not done the contractor is merely contributing to the owner this amount.

Futhermore, a careful analysis along these lines will often disclose the fact that a certain piece of work requires a larger amount of money to handle it than is apparent at first glance, and such a condition might work a hardship if not a disaster on the contractor in spite of the fact that all other considerations had been taken care of. It is a notorious fact that on certain types of contracts, pay for preliminary work, which may be a large item, cannot be secured through the medium of the regular unit prices until the work has progressed well along to completion.

Constructive Skill.—Contractors enenaged in business are entitled to receive compensation in the shape of an annual salary for personal services rendered and it is our belief that any computations of cost should include sufficient amount to cover such salary whether it be that of a single individual or various members of a partnership or corporation. If this is not done the contractor is contributing his services to the owner without remuneration, because by no stretch of the imagination can there be any rightly considered profit except as over and above a reasonable salary allowance to the contractor himself.

Use of Plant.—This item justifies an independent discussion by itself and we suggest that the association appoint a committee to deal directly with it.

Hazard.—Many specifications include clauses which contemplate making the contractor assume risks which should properly be borne by the site, or in other words, should be at the owner's risk. In making a proposal on such work the conractor has two alternatives—one to protect himself in his proposal against such risks by special provision in his proposal, or secondly, to put a large value on any possible risk which he is asked to stand.

It may be well to add in this connection that while it ordinary behooves a contractor to be somewhat of an optimist he can well afford to be a confirmed pessimist when figuring this portion of a contract. It is possible this fact more than any other has caused good firms to have to go out of the contracting business.

Profit.—As to the necessity of a profit we can all be agreed. As to the amount which must be added as a percentage on the cost, differences of opinion will exist, but it must be remembered that the contracting business is a particularly hazardous one; that it is irregular in volume and that every contract will not necessarily be profitable.

Futhermore, it must be remembered that the average merchant sells goods from his shelves at a profit with a definitely established costs for the goods themselves. The manufacturer sells on short term contracts—his overhead, plant installation and plant maintenance costs are established and regular, and while he may not in all cases be willingly to admit it, the manufacturer is practically working on a cost plus basis today. The only difference in most cases between his method of fixing prices and that of a cost plus construction contract is that the manufacturer can and does add a larger profit for the use of his organization,

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brains and energy. The contractor must provide his plant, must guess at the cost of it, in place, must guess at the operating cost, must guess successfully if he is to stay in the business as to what the labor market will be, and if he is willing to do this he is surely entitled to a fair margin of profit.

Necessary Factors in Estimating.—The following items also enter into most work and must be in detail before the preliminary cost of a piece of work can be considered as complete:

Interest.
Overhead expense.
Bonds.
Insurance—Employers' liability. Public liability. Fire Insurance.
Special risks.
Freight on outfit to and from work.
Moving in and out.
Land damages.
Camp and other buildings.
Preliminary work.
Cost of materials plus freight.
Hauling materials.
Supervision.
Labor.
Loss on board.
Transportation of labor.
Tools.
Plant rental.
Supplies.
Running repairs.
General repairs.
Special.
Machinery.
Fuel and power.
Water.

Taking up these items in order we will comment briefly on each:

Interest.—This is covered in our discussion of financial credits.

Overhead.—A contractor should establish the proper cost of the overhead charges in his business. This should include the charges, salary allowance for members of the firm, traveling expenses, etc. Provision should also be made here for the maintenance of an equipment storage yard.

Bonds.—No comment should be necessary here on this item.

Iinsurance.—It is not necessary to make a discussion of the ordinary items, but we wish to call attention to the fact that prudence would require that any conbustile material, together with camps, storehouses, etc., should be insured and such insurance is of course a proper item of cost to the work. There are often special risks which occur upon a job which may be protected by insurance, and such insurance is also part of the cost.

Freight on Outfit.—This is probably a portion of the item following, but we have listed it separately because we believe that many contractors under-estimate the amount of freight that they will be required to pay on their outfits in such cases.

Moving in and Out Expense.—This is an item frequently overlooked, by contractors, but one which requires careful consideration. First, there is expense of loading outfit in the contractor's yard; second, the unloading of it at point of destination; third, the moving of it perhaps many miles across country; fourth, the setting up and getting plant ready to operate, and the reverse of all these operations until the plant is again delivered in the contractor's yard.

Land Damages.—This is an item which we believe many contractors neglect entirely and still is one which cost considerable sums of money. This seems particularly true in connection with county road work.

Land damages accrue from the use of property for camping purpose, from moving outfits across fields for the diversion of public highways, and for storage yard and other construction layout.

Camp and Other Buildings.—This is another fruitful source of underestimating by contractors, often in loose assumption that "The boarding house will pay for the camps." If such a condition ever existed it must have been a great many years ago and we believe that present day conditions necessitate including the cost of all camps and temporary buildings required to carry on the work. We further believe that contractors should be careful to avoid the thought of high salvage values to avoid subsequent disappointment.

Preliminary Work.—This is an item which should not only be considered in cost estimating, but we believe that we should digress from the subject for a moment and call attention to the fact that it is probably a duty which every contractor owes to himself to work out a definite scheme of handling a piece of work before he proceeds with an estimate. This does not mean that he must detail the laying out of an entire piece of work but that he must see clearly that a certain general line of procedure can be followed with expectation of proper results therefrom.

Cost of Materials.—Mention is made of this particularly to emphasize the fact that a cost estimate is usually based on certain material quotations, and it is very necessary in these times that a prospective bidder should be careful to be properly covered with material quotations when making a bid and to close up promptly with the material dealers after the award of the contract.

In connection with this comes a question of freight which must not be overlooked, but in case of the present railway situation it would seem necessary for every bidder to make special provision in his proposal to protect against a change in freight rates during the time of the work.

Hauling Materials.—All hauling costs should be very carefully analyzed, as they are often a fruitful source of underestimation.

Supervision.—Care should be taken to see that any computation of labor also includes any supervision which is not covered in the item of overhead. This

(Continued on Page 743.)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (alts.), North side of Arch, between Seventeenth and Eighteenth streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. General remodeling of four-story residence into 8 suites of offices, new partitions, hardwood floors, steam heating, electric lighting, tile and marble work. Plans in progress. Architect will be ready for bids in one week.

Residence, location withheld. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick and frame, 2 stories, 107x30 feet, wing 18x35 feet, shingle roof, hardwood floors, hot water heating, Delco system of electric lighting, tile and marble work. Plans in progress.

Stores (4) and Apartments (8), Sixty-third and Market streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, 34x92 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work, flush bulks. Plans in progress.

Stores, Offices and Apartments, Fifteenth and Spruce streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 4 stories, 50x205 feet, slag roof, hardwood floors, elevators, steam heating, electric lighting, tile and marble work, flush bulks, fire tower, steam or vapor heating. Plans in progress.

Arsenal Bridge Sub-station (alts. and add.), Philadelphia. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and terra cotta, 2 stories, 19x36 feet, asphalt mastic roof, concrete floors, hollow tile, stone foundations, rolled steel sash. Bond. Owners taking bids due August 24th. Irwin & Leighton, 126 North Twelfth street; Turner Const. Co., 1713 Sansom street; Roydhouse-Arey Co., Fidelity Building; F. A. Havens Co., 845 North Nineteenth street; John R. Wiggins & Co., Otis Building; Barclay White & Co., 1713 Sansom street; Wark & Co., 1737 Filbert street; John N. Gill & Co., Otis Building, and H. John Homan, 34 South Sixteenth street; Thos. Reiley, 1616 Thompson street, are figuring.

Residence (alts.) and Garage, 209 Pelham Road, Germantown, Philadelphia. Architect, Otto Herold, Reading Terminal, Philadelphia. Owner, Clark Dillenback, on premises. Stone, 1½ stories, 20x24 feet, slate roof, cement and pine floors, metal lath, tile work, stone foundations, painting, glazing, plumbing, carpentry. Architect taking bids due August 17th. Joseph Scott, 3933 North Eighth street; H. E. Baton, 1713 Sansom street; Robert E. Lamb Co., 843 North Nineteenth street; Fred A. Havens Co., 845 North Nineteenth street, Philadelphia, and Charles C. Pace, Merion, Pa., are figuring.

Residence (add.), 101 North Sixty-third street, Philadelphia, $3,000. Architect, private plans. Owner, M. L. Middleberg, on premises. Brick, 1 story, 25x32 feet, slag roof. Owner will build.

Store (alts. and add.), 1532 North Broad street, Philadelphia. Owner, M. Magil, 20 North Sixth street, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Architect taking bids due August 18th. Lam Building Co., 1001 Wood street; J. Gorchov, 4116 Girard avenue; Jacob Bender, 1816 South Fourth street, and D. Warshofsky, 810 North Marshall street, are figuring.

Church, Chew and Fairhill streets, Philadelphia, and **Sunday School.** Architect, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, Tabor Reformed Church, on premises. Stone, 1 story, 50x65 feet, slate roof, pine floors, steam heating, electric lighting. Plans in progress.

Miscellaneous Work and Supplies, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Highways, Department of Public Works, care of Frank H. Caven, Director, Room 232, City Hall, Philadelphia. Grading, paving, (3) steel trusses to be erected Bridge No. 2, Pennypack Creek, demolition of buildings on line of Delaware avenue, between Fairmount avenue and Laurel street. Portland cement, concrete, sand, pebbles and slag. Owners taking bids due August 19th.

Residence (alts. and add.), 1928 Rittenhouse street, Philadelphia, $3,000. Architect, private plans. Owner, W. R. Morton Keast, Commonwealth Building, Philadelphia. Brick, 3 stories, 12x12 feet, slate roof, stone foundations, iron work (heating, electric lighting and floors reserved). Owner will build.

Garage, 101 North Sixty-third street, Philadelphia, $5,000. Architect, private plans. Owner, M. L. Middleberg, on premises. Brick, 1 story, 40x25 feet, slag roof, electric lighting. Owner will build.

Residences (5), Belfield and Wingohocking streets, $37,000. Architect, private plans. Owner, B. Bornstein, 1512 North Franklin street, Philadelphia. Brick, 3 stories, 20x40 feet and 32x40 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile and marble work. Owner will build.

Store and Residence (add.), 5422 Germantown avenue, $7,000. Architect, private plans. Owner, William J. McGoldrick, 5420 Germantown avenue, Philadelphia. Brick, 3 stories, 16x60 feet, slag roof, hot water heating, electric lighting, pine floors. Owner will build.

Residence (alts.), 5003 Florence avenue, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, George E. Battersby, on premises. General interior alterations, electric lighting. Plans in progress.

Manufacturing Building (alts. and add.), Orianna and Willow streets. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, E. Hubschman, Orianna and Willow streets, Philadelphia. Reinforced concrete and steel, 1 story, 110x59 feet, slag roof, cement floors, fire doors, rolled steel sash, concrete foundations (heating and electric work reserved). Owner taking bid from Lam Building Co., 1001 Wood street, Philadelphia, due as soon as possible.

Synagogue, Southwest Corner Eighth and Porter streets, Philadelphia. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, Congregation of Shaare Sigah, care of architect, or care of Mr. Weintrob, 625 Ritner street, Philadelphia. Brick and terra cotta, 3 stories, 80x100 feet, slag roof, copper and galvanized iron work, pine and tile floors, structural steel, steam heating, electric lighting, tile and marble work, leaded glass. Plans completed. Owner and architect taking bids due as soon as possible. J. Gorchov, 4116 Girard avenue; Jacob Bender, 1612 South Fourth street, and Charles Schnitzer, 2513 North Thirty-first street, are figuring.

Hotel Alterations, Twenty-second and Chestnut streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Rittenhouse Hotel, Twenty-second and Chestnut streets, Philadelphia. Composition floors, brick work, cut stone, structural steel, iron work, tin roof, carpentry, maple and pine floors, mosaic and terrazzo work, metal lath, plastering, changing heating system, electric work. Architects taking revised bids due as soon as possible. Lam Building Co., 1001 Wood street; Warren-Moore Co., Colonial Trust Building,

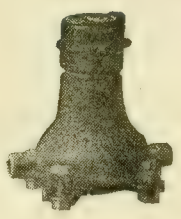
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and Pierce-Henon, Inc., Bulletin Building, are figuring.

Residence (alts.), 7162 Ridge avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, L. E. Adams, on premises. New porch and alterations. Architect taking bid due as soon as possible from Frank E. Wallace, 1220 Chancellor street, Philadelphia.

Residence (alts.), 4305 Spruce street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Morris Fels, on premises. General alterations. Architect taking bids from Frank E. Wallace, 1220 Chancellor street, Philadelphia, due as soon as possible.

Store (alts.), 533 Market street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, A. S. Goldberg, on premises. Brick work, plastering, heating repairs, roof repairs, mill work, carpentry, metal lath, metal ceilings, iron work, metal bulks, tile and marble work. Architect taking bids due August 19th. Smith-Hardican Co., 1606 Cherry street; F. A. Havens Co., 845 North Nineteenth street; J. S. Rogers Co., Drexel Building; Kober Const. Co., 34 South Seventeenth street; M. Yellin, 712 North Franklin street, Philadelphia, and Lansdowne Const. Co., Lansdowne, Pa., are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Workshop, 324-26 North Ninth street, Philadelphia, $13,000. Architect, private plans. Owner, Louis Wagner, 3113 North Sixteenth street, Philadelphia. Brick, 3 stories, 35x92 feet, slag roof, cement and pine floors, steam heating, electric lighting. Contract awarded to Benj. Collier, 1808 Addison street, Philadelphia.

Factory, Southeast Corner Homestead and Milnor streets, Philadelphia, $91 000. Architect, private plans. Owners, Helwig Silk Dyeing Co., Ninth and Buttonwood streets. Slow burning, brick construction, 1 and 2 stories, 96x232 feet, slag roof, steam heating, electric lighting, steam heating, structural steel. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Storehouse, 212 North Front street, Philadelphia, $5,000. Architect, private plans. Owners, Standard Provision Co., 212 North Front street, Philadelphia. Brick and steel, 1 storv, 36x63 feet, slag roof, electric lighting, cement floors. Contract awarded to F. A. Foster, 239 West Rittenhouse street, Germantown.

Office (alts.), Southeast Corner Thirtieth and Race streets, Philadelphia. $3.500. Architect, private plans. Owner, F. G. Vogt Son, on premises. Plastering, carpentry, mill work, brick work, painting, glazing, stairways. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Factory Building, Mill Lane and Frankford Creek, Philadelphia. Architect, private plans. Owners, Philadelphia Felt Co., on premises. Brick, steel and concrete, 1 story. Contract awarded to Edw. T. Bender, 6014 Torresdale avenue, Philadelphia.

Residence (alts. and add.), 525 Pine street, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, S. B. Koffler, care of architect. New bathroom addition, brick, 1 story, slag roof. Contract awarded to S. B. Cerruti, 215 South Second street, Philadelphia.

Concentration Building, Rising Sun Lane and Adams street, $50,000. Architect, private plans. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue. Structural steel and concrete, 1 story, 60x68 feet, concrete roof, steam heat, electric light, concrete floors, rolled steel sash and skylights, waterproofing. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Stores (alts.), 3953 Market street, Philadelphia, $15,000. Architect, private plans. Owners, Walter Baton, on premises. Carpentry, mill work, marble work, terrazzo work, electric lighting, new bulks, painting, glazing, steam heating, plastering. Contract awarded to Austin Grindrod Co., Franklin Building, Philadelphia.

Stores (alts.) to One Large Store, Northwest Corner Fifth and Cambria streets. Architects, Clark & Dudnick, Drexel Building,

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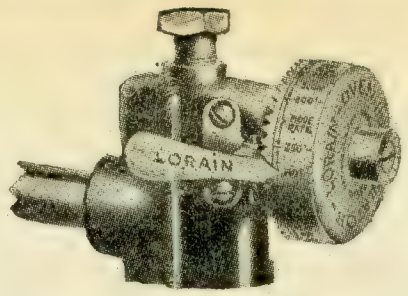
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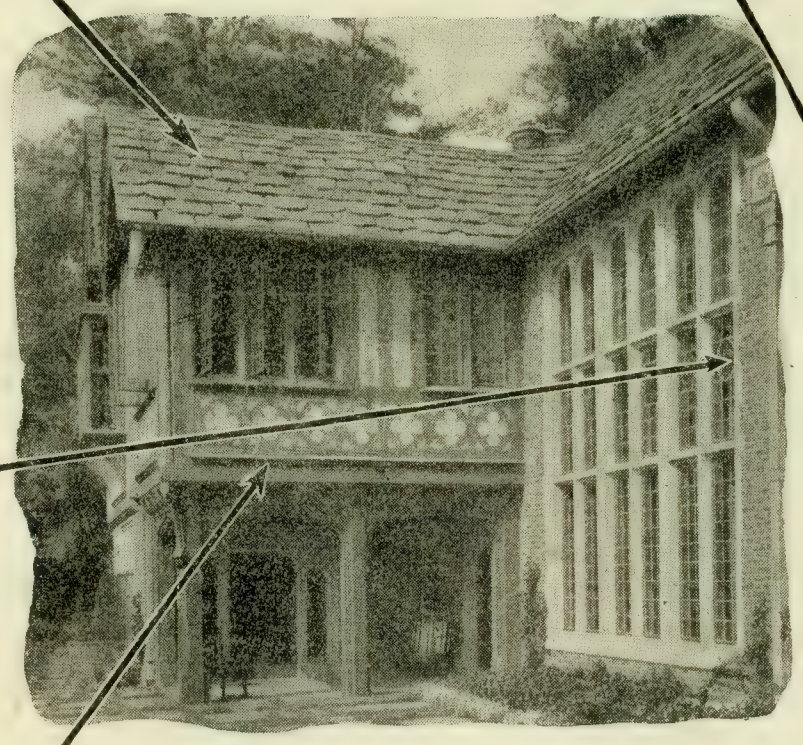
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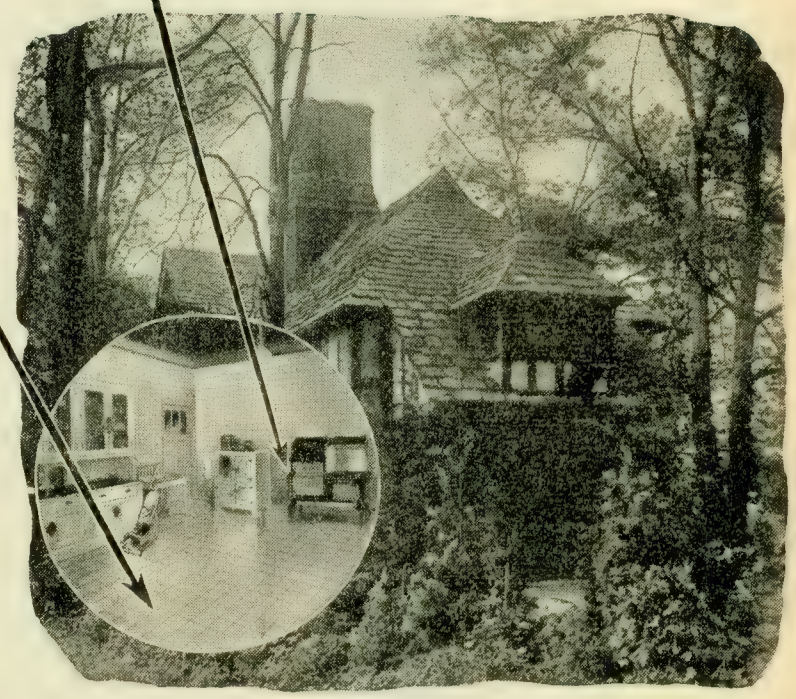
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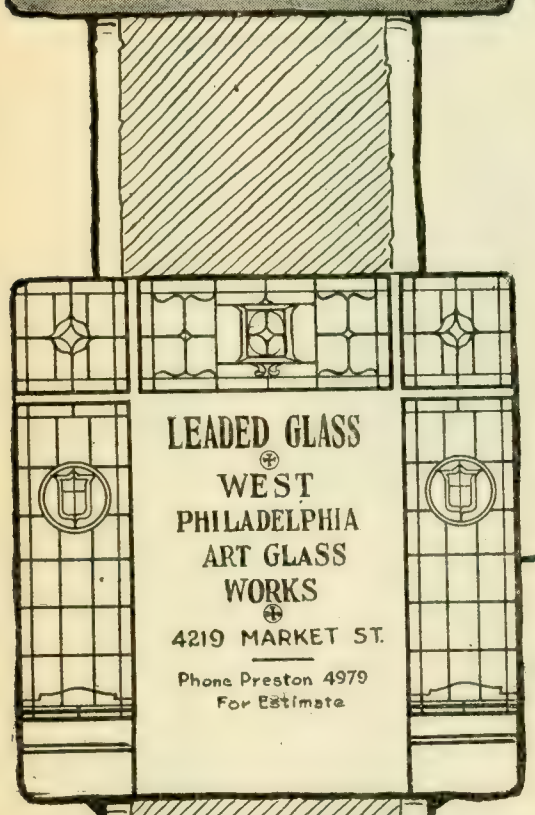


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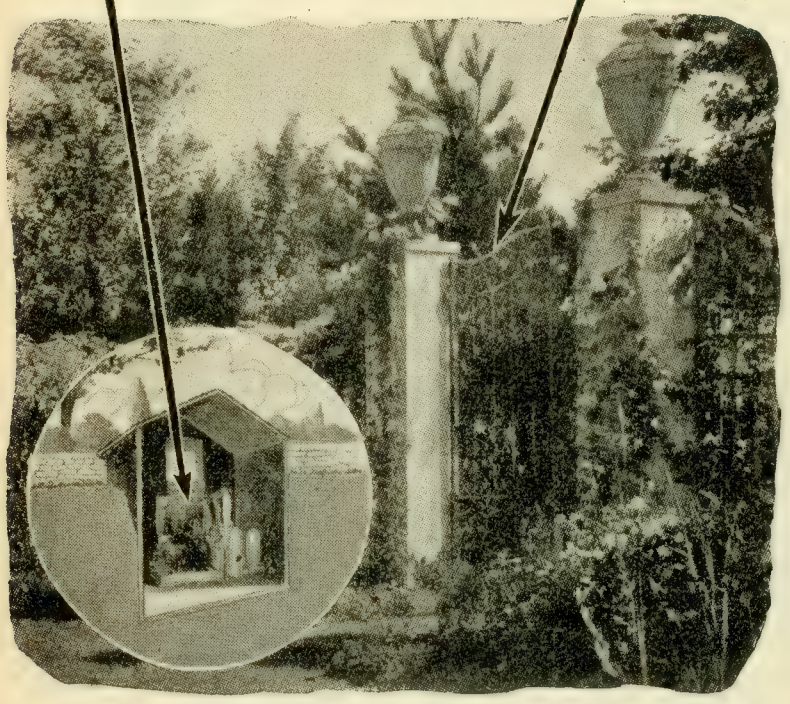
MINWAX

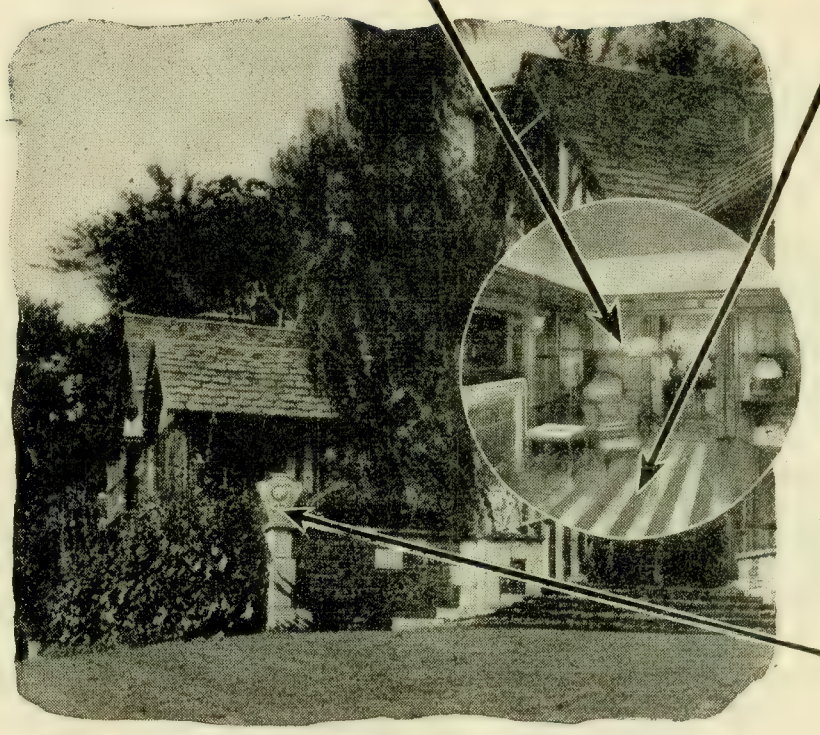
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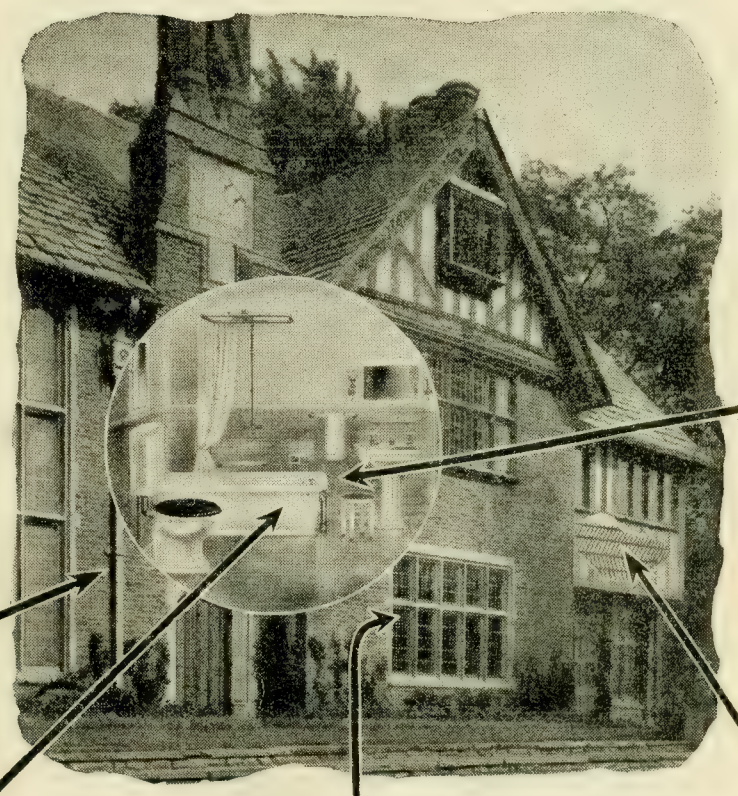
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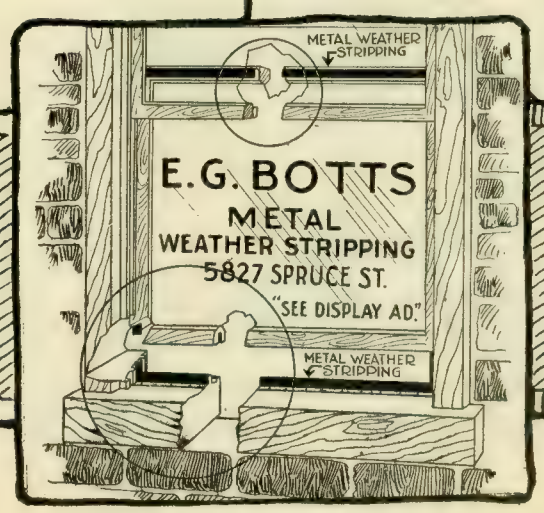




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Philadelphia. Owner, S. Z. Rosenfeld, care of architects. Steel columns and beams, plastering, glazing, mill work, electric lighting. Contract awarded to B. C. Sagel, 3119 Page street, Philadelphia.

Building (add.), Front and Wishart streets, Philadelphia, $5,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Mr. Weisbard, care of architect. Brick, 2 stories add. 36x21 feet, slag roof, pine floors, steam heat, electric lighting. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Warehouse, 414-16 South Water street, Philadelphia. Architect, private plans. Owners, Pennsylvania Warehousing & Safe & Deposit Co., 113 South Third street. Reinforced concrete, 5 stories, 130x40 feet, slag roof, cement floors, fire doors, iron work, hollow metal sash, stone foundations (heating, electric lighting and plumbing reserved). Bond. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

School (toilet add.), East Haines and Morton streets, Germantown, Philadelphia, $2,800. Architect, Charles C. Cummiskey, Real Estate Trust Building, Philadelphia. Owner, Holy Rosary Italian Roman Catholic Church, East Haines street, Germantown. Brick, 1 story, 15x24 feet, slag roof, cement floors, electric light, stone wall, 25 feet long. Contract awarded to William C. Wright, 22 Harvey street, Germantown, Philadelphia.

Mill Building (alts.), 1849 East Venango street, $4,000. Architect, private plans. Owners, Florence Knitting Mill, on premises. General interior alterations. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Residence, 4741 North Front street, Philadelphia, $3,500. Architect, private plans. Owner, Fred Deni, 4835 North Front street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hot water heating, electric lighting, hardwood floors. Contract awarded to C. M. Bussinger, 4910 North Front street, Philadelphia.

Garage, Broad and Wharton streets, Philadelphia, $5,100. Architect, Frank V. Nickels, 4400 Manayunk avenue, Philadelphia. Owner, John Reale, Tenth and Filbert streets, Philadelphia. Brick, 1 story, 87x24 feet, slag roof, cement floors, stone foundations (heating, plumbing and electric work reserved). Contract awarded to William G. Uhlers' Sons, 1831 South Broad street, Philadelphia.

Store and Residence (alts.), 924 Girard avenue, Philadelphia, $6,300. Architect, private plans. Owner, B. Wolf, 1417 North Eighth street, Philadelphia. General alterations, new front, hardwood floors, electric lighting. Contract awarded to D. Warshowsky, 810 North Marshall street, Philadelphia.

Hospital (alts.), Southeast Corner Broad and Catharine streets, $5,000. Owners, Howard Hospital, on premises. Interior alterations. Contract awarded to F. T. Mercer Co., 1706 Delancey tsreet, Philadelphia.

Lodge Building (alts.), 509-11-13 West Allegheny avenue, $4,000. Architect, private plans. Owner, John Rinarhn Council, on premises. Interior alterations, electric lighting. Contract awarded to Kensington Const. Co., 1935 East Cumberland street.

Residence (add.), southeast corner of Wissahickon avenue and Hortter street, $3,000. Architect, private plans. Owner, Samuel L. Clements, Jr., on premises. Stone, 2 stories, 15x28 feet, slag roof, hot water heating, electric lighting, oak and pine floors. Contract awarded to F. Elvidge & Son, 5522 Germantown avenue.

Office Building, 129 Walnut street, Philadelphia, $4,150. Architect, private plans. Owner, M. Innelli, on premises. General interior alterations. Contract awarded to D. J.

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Residence and Store, 2536 Kensington avenue, Philadelphia, $4,000. Architect, private plans. Owner, Alex. Parmis, on premises. General interior alterations. Contract awarded to Charles Belmsky, 2504 South Sixth street, Philadelphia.

PENNSYLVANIA Construction News

Milk Station (add.), Bryn Mawr, Pa. Architect, Wager Fisher, Otis Building, Philadelphia. Owners, Highland Dairies, Bryn Mawr, Pa. Brick and concrete, 2 stories, 25x54 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting. Architect has received bids.

Crusher House Foundation and Storage Bin, Tullytown, Pa. Engineer, Otto Fisher, Beach and Berks streets, Philadelphia. Owner, Penn Valley Plant of Hainesport Mining & Trans. Co., Tullytown, Pa. Reinforced concrete, 72x34 feet, 40 feet high. Engineer has received bids.

Residence (alts. and add.), Fifty-third and Overbrook avenue, Wynnefield, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Dr. Russell S. Boles, on premises. Carpentry, mill work, painting, iron work, plastering (heating and electric work reserved). Architect has received bids.

Store and Apartment, Broad and Third streets, Bethlehem, Pa. Architect, C. W. Grossart, 603 Hamilton street, Allentown, Pa. Owner, R. R. Miller, Main street, Bethlehem, Pa. Brick, new front, general interior alterations. Plans in progress.

Hotel (alts.), Seventh and Linden streets, Allentown, Pa. Architect, C. W. Grossart, 603 Hamilton street, Allentown, Pa. Owner, Morris Cahlan, 533 Allen street, Allentown, Pa. Brick, interior alterations. Plans in progress.

Store (alts.), Easton, Pa. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner, name withheld. General interior alterations, marble work, metal front, leaded glass, interior cases, electric work, painting. Architect will be ready for bids in one week.

Store (alts. and add.), Easton, Pa. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner, name withheld. Brick and steel work, 1 story, 60x30 feet, slag roof, marble and terrazzo work, metal store front, plate glass. Architect has received bids.

Theatre, Seventeenth and Washington streets, Easton, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, Twin City Theatre Co., care of C. L. Buss, president, 104 N. Fourth street. Brick, 1 and 2 stories, 50x112 feet, slag roof, concrete floors, roof ventilators, concrete foundations, vapor heating, electric lighting, rolled steel sash, roof ventilators. Architect has received bids.

Bungalow, Cunningham Pass, Pa. Architect, F. H. Atherton, Coal Exchange Building, Wilkes-Barre, Pa. Owner, E. W. Reese, Hazleton, Pa. Frame, 1½ stories, 44x46 feet,

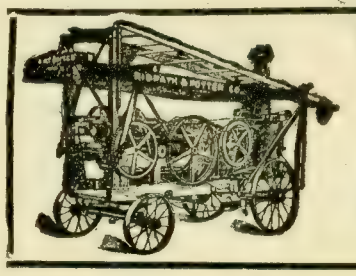


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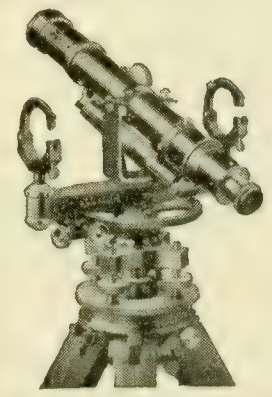
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shingle roof, hardwood floors, electric lighting. Plans in progress.

Double Houses (40), Forty Fort, Pa. Architects, Atherton & Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Chamber of Commerce, care of architect. Frame and stucco, 2 stories, 26x38 feet, composition roof, pine floors, pipeless heaters, electric lighting. Plans in progress. Architect will be ready for bids in one week.

Fire House, Nanticoke, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Nanticoke Fire Co., care of A. H. Griffrovitch, 201 East Ridge street, Nanticoke, Pa. Brick, 2 stories, 30x62 feet, slag roof, concrete and pine floors, stone foundations, steam heat, electric lighting. Plans in progress.

Bridge, Crown street to Harrison street, Scranton, Pa., $200,000. Engineers, William A. Schunk, City Hall, Scranton, Pa., and Engineer Cohen, Newark, N. J., associated. Owner, City of Scranton, care of engineer. Reinforced concrete, 496 feet long. Plans in progress.

Church, Mayfield, Pa. Architect, Theo. Prietz, Lackawanna avenue, Scranton, Pa. Owners, Polish Roman Catholic Church, Mayfield, Pa. Frame and stucco. Plans in progress. Too early for details.

School, Dunmore, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Dunmore School Board, care of Dr. P. J. Kane, 103 East Drenhopt street, Dunmore, Pa. Brick, 2 stories and basement, 100x51 feet, stone foundations. Plans in progress.

Golf Club, Newton Lake Farm, Greenfield Township, Lackawanna County, Pa. Architect, Ed. Langley, Scranton Life Building, Scranton, Pa. Owner, Elk View Golf Club, care of M. Hiller, Carbondale, Pa. Field stone and frame, 2 stories, 90x70 feet, slate roof, hardwood floors, stone foundations, pipeless heater, electric lighting. Plans in progress. Owners taking sub-bids.

Residence (alts. and add.), Summit Hill, Pa., $15,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, C. J. Dorrian, on premises. Frame, 3 stories, 20x40 feet, slate roof, hardwood floors, electric lighting, general interior and exterior alterations. Owner is taking bids. Andrew Breslin, Summit Hill, Pa., is figuring.

Rectory (alts. and add.), Minoaka, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. P. E. Lovelle, Minoaka, Pa. Frame, 3 stories, 30x35 feet, slate roof, hardwood floors, electric lighting. Architect ready for bids due September 28th.

Garages (2), Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Mitchneck & Liermanan, North Wells street, Wilkes-Barre, Pa. Brick, 1 story, 40x80 feet, slag roof, cement floors, concrete foundations, steam heating, electric lighting. Owners are ready for bids.

Buildings (2) (alts. and add.) to Store and Apartment, Washington and Northampton streets, Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, J. Williams, 27 Nicholas street, Wilkes-Barre, Pa. Brick, 1 story, 29x50 feet, oak floors, electric lighting, tile work, new plumbing, general interior alterations. Plans in progress.

Pennsylvania Contracts Awarded

Residence (alts. and add.), Haverford, Pa. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owner, R. P. McNeely, Haverford, Pa. Vapor heating, electric lighting, carpentry, mill work. Contract awarded to James Duffy, Wayne, Pa.

Bank Building, Bethayres, Pa. Architect, Thomas B. Lippincott, 10 South Eighteenth street, Philadelphia. Owner, Huntingdon Valley Trust Co., Bethayres, Pa. Plaster and steel, 1 story, 43x31 feet, stone foundations, composition and pine floors, metal lath, marble work, ornamental iron work. Contract awarded to Fesmire Bros., Huntingdon Valley, Pa.

Paint Shop and Dipping Tank, Chester, Pa. Architect, private plans. Owner, Allison Steel Products Co., Chester, Pa. Brick, 1 story, 64x30 feet, slag roof, cement floors, stone foundations. Contract awarded to John R. Wiggins & Co., Otis Building, Philadelphia.

Church, Laurel street, Coaldale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. John's Roman Catholic Church, care of Rev. P. Guailias, Lansford, Pa. Brick, stone, hollow tile and

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DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

stucco, 40x95 feet, asbestos shingle roof, pine floors, electric lighting, tile work, rolled steel skylights, roof ventilators. Contract awarded to A. Graff, Builder, Tamaqua, Pa.

Schools (alts.), Dickson City, Pa., $20,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, School Board of Dickson City, care of F. E. Wuelson, Dickson City, Pa. Alterations to schools, Columbus No. 1, Washington No. 2, Lafayette No. 3, Wilson No. 4, and Lincoln No. 6, sheet metal work, plumbing, school furniture, electric fixtures, window shades, book cases, school equipment. Contract awarded to Boland Bros., 427 Spruce street, Scranton, Pa.

Residence, College Heights, Allentown, Pa. Architect, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, C. W. Kaeppel, on premises. Hollow tile and frame, 2½ stories, 43x44 feet, slate roof, hardwood floors, stone foundations, steam heating, electric lighting, tile and marble work. Owner will sublet.

Silk Mill (alt.), Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, National Silk Dyeing Co., Allentown, Pa. Raising roof, steel trusses, brick work. Contract awarded to G. H. Hardner, Lentz Building, Allentown, Pa.

Factory, Forest Court, Pa., $20,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, M. F. Howley, 233 Wyoming avenue, Scranton, Pa. Brick, 2 stories, 33x90 feet, slag roof, pine floors, electric light, hollow metal sash. Contract awarded to Lewis Caputo, 1213 South Main street, Scranton, Pa.

School, Larksville, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Larksville School Board, care of James Gallagher, Larksville, Pa. Frame, 2 stories, (4) rooms, slate roof, pine floors, steam heat, electric lighting. Contract awarded to James Butler, Larksville, Pa.

School, Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, School Board of Plains, Plains, Pa. Frame, 1 story, 45x48 feet, slag roof, pine floors, steam heating, electric lighting. Contract awarded to Moses Griffith, Plains, Pa.

School (alts.), Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, School Board of Plains, Plains, Pa. New heating system, general interior alterations, electric work. Contract awarded to Moses Griffith, Plains, Pa.

Storage House and Garage, Easton, Pa. Architect, private plans. Owners, Easton Sanitary Milk Co., Easton, Pa. Reinforced concrete and steel, 3 stories, 45x48 feet, electric lighting. Owners will build.

Residence, Philadelphia Road, Easton, Pa. Architect, private plans. Owner, James Waterbor, on premises. Brick and shingle, 2 stories, 28x42 feet, slate roof, pine floors, concrete foundations, hot air heating, electric lighting. Contract awarded to Oscar Waterbor, 800 Reynolds street, Easton, Pa.

Y. M. C. A. Building, Easton, Pa., $450,000. Architects, Martin & Kirkpatrick and Walter H. Ahomas, 130 South Fifteenth street, Philadelphia. Owners, Y. M. C. A., care of C. K. Williams, chairman building committee, Easton, Pa. Steel, brick, reinforced concrete and terra cotta, 4 stories, 125x108 feet, Barrett roof, composition floors, hollow tile, metal lath, roof ventilators, waterproofing, steam heat, electric light, tile and marble work, slate work, rolled steel sash, copper skylights, kalamein doors, iron stairs, ornamental iron work. Contract awarded to Wark & Co., 1737 Filbert street, Philadelphia.

New Jersey Construction News

Residence (alts. and general remodeling), Chelsea, N. J. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, C. H. Geist, Land Title Building, Philadelphia. General remodeling of exterior and interior alterations. Preliminary plans being prepared.

Residence, Ventnor, N. J. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, M. K. Boyajian, 1909 Boardwalk, Atlantic City, N. J. Hollow tile and stucco, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans completed.

Garage, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owners, Castanea Dairy, Trenton, N. J. Brick, 2 stories, 60x80 feet, stone foundations, slag roof, concrete floors, steam heat, electric light. Architect ready for bids.

Residence, Langhorn, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, G. L. Atkins, on premises. Frame, 2½ stories, 28x40 feet, concrete foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids, due August 24th. Joseph Flach, Bristol, Pa., and J. LaRue, Wrightstown, N. J., are figuring.

School, Glassboro, N. J., $422,000. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, State of New Jersey, Board of Education, C. Kendell, chairman, Capitol Building, Trenton, N. J. Brick, terra cotta, 3 stories, 301x125 feet, stone foundations, slate, slag and metal roof, hardwood floors, steam heat, electric light, tile, marble and terrazzo work, hollow metal sash and skylights, elevators, roof ventilators. Architect taking bids, due September 14th. Connors Bros., 15 West Ninety-first street, New York; Standard Const. Co., 1713 Sansom street, Philadelphia, and David C. Lange, 700 West Atlantic avenue, Audubon, N. J., are figuring.

McCosh Dining Hall, Princeton, N. J. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, Princeton University, Princeton, N. J. Stone, slate roof, steam heating, electric lighting. Preliminary plans in progress. Too early for details.

New Jersey Contracts Awarded

Docks and Wharves, Delaware River, Camden, N. J., $213,000. Engineer, William D. Sayre, Room 11, City Hall, Camden, N. J. Owner, City of Camden, Harbor Commission, Camden, N. J. Timber piles, reinforced concrete and steel, 102 feet wide and 470 feet long, steel sheds (electric lighting reserved). Contract awarded to Tilt & Hargan, 90 West Broadway, New York City.

Residence and Apartment, Bordentown, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, State Board of Education, Bordentown, N. J. Frame and stucco, 2½ stories, 30x21 feet, shingle roof, hot water heat, electric light, wood floors, new porches. Contract awarded to Carroll & Pullen, Princeton, N. J.

Cockerel House and Boiler House, near Riverton, N. J. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owners, Campbell Soup Co., Farm No. 1, near Riverton, N. J. Frame, 1 and 2 stories, 120x50 feet, and 1 story, 25x35 feet, prepared roofing, concrete



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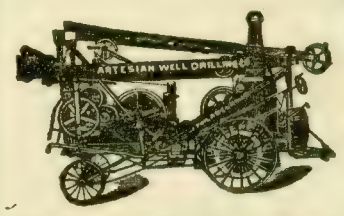
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foundations, cement floors, poultry wire. Contract awarded to George W. Shaner & Sons, Palmyra, N. J.

Delaware Construction News

Residence, Van Buren and Wawaset streets, Wilmington, Del., $20,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, James Carr, Eleventh and Spruce streets, Wilmington, Del. Brick, 3 stories, 26x40 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Plans in progress. Owner will take bids in one week.

Residence, Holly Oak, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, name withheld. Brick and stucco, 2½ stories, 27x38 feet, wing 12x25 feet, slate roof, hardwood floors, stone foundations, hot water heating, tile work, electric lighting. Architect is taking sub-bids.

Store (add.), 919 Market street, Wilmington, Del., $10,000. Architect, private plans. Owner, Henry Hoopes, on premises. Brick, 2 stories, 17x60 feet, slate roof, hardwood floors, electric lighting. Owner will build.

Delaware Contracts Awarded

Schools (alts.), Nos. 3, 4, 13 and 20, Wilmington, Del., $25,067. Architect, private plans. Owner, Board of Education, Wilmington, Del. Brick and frame add. for installation of new toilets. Contract awarded to W. G. Robelen, 632 Shipley street, Wilmington, Del.

Residence, 1428 Hamilton street, Wilmington, Del., $7,000. Architect, private plans. Owner, T. P. Genteen, 1101 Madison avenue, Wilmington, Del. Brick, 2 stories, 26x24 feet, asphalt shingle roof, pine floors, concrete foundations, hot air heating, electric lighting. Contract awarded to T. Samworth & Son, 1508 Lancaster avenue, Wilmington, Del.

Store (alts.), 200 Market street, Wilmington, Del., $5,000. Architect, private plans. Owners, Lepkowitz & Gabis, on premises. New front and new stairway. Contract awarded to S. Graelefsky, 411 East Fourth street, Wilmington, Del.

Miscellaneous Construction News

Church and Sunday School, Crisfield, Md., $75,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Asbury Methodist Episcopal Congregation, care of Rev. W. C. Cochran, on premises. Stone, 1 story, 120x80 feet, slate roof, stone foundations, tile work, steam heating, electric lighting. Plans in progress. Architect will be ready for bids in two weeks.

Church, Parish House and Sunday School, Buffalo, N. Y., $250,000. Architect, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, Central Park Methodist Episcopal Church, care of Dr. Drake Skinner, Buffalo, N. Y. Stone, 1 and 2 stories, 125x60 feet and 125x60 feet, slate roof, oak, cement and tile floors, steam heating, electric lighting, hollow tile, metal lath, elevators (elevator and heating reserved). Architect taking bids due August 23rd. Edw. K. Fenno, Syracuse, N. Y.; Inea Const. Co., William Hendricks Sons Co., Robert E. Williams, Mosier & Summers, E. T. Crooker and Charles Everett, all of Buffalo, N. Y., are figuring.

Dispensary, Spec. 4226, Navy Yard, Washington, D. C. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Concrete, brick and steel, 2 stories, 91x60 feet, asbestos roof, composition, cement and tile floors, hollow tile, metal lath, safety treads, roof ventilators, waterproofing, iron work, steel stairs, skylights, rolled steel sash, steam heating, electric lighting, concrete foundations, cement mortar finish. Owners taking bids due August 18th. Hughes-Foulkrod Co., Commonwealth Building, and Stang & Mitchell, Real Estate Trust Building, Philadelphia, are figuring. Deposit of $20.00 required.

Store Building (alts.), 124 West Baltimore avenue, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Harris Bros., on premises. General interior alterations to entire three-story building, new front to first floor, metal bulks and plate glass, pine and hardwood floors, new partitions, stairways (heating and electric work and plumbing reserved). Architect taking bids due August 18th. Charles L. Stockhausen & Son, William Ferguson & Bro., C. W. Littleton & Son, Christian F. Richter and Frank Herbert, all of Baltimore, Md., are figuring.

Store Building, 2102 Monument street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Morris Klein, on premises. Brick, 3 stories,

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18x90 feet, slag roof, brick foundations, pine floors, hardwood floors (hot water heating, electric lighting reserved), tile work, hollow metal sash, plumbing, metal bulks, fire escapes. Architects taking bids due August 18th. R. B. Mason, Christian R. Richter, E. Eyring & Son, Frank Herbert and George Schnader, all of Baltimore, Md., are figuring.

Laboratory, Providence, R. I. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, Brown University, Providence, R. I. Brick, 3 stories, 50x300 feet. Preliminary sketches in progress. Too early for details.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 12, 1920. Sealed Proposals will be received at this office until 3 P. M., September 3, 1920, and then opened, for new mezzanine floor in Post Office, Scranton, Pa., in accordance with drawing No. M. C.-73 and 325 and this specification, copies of which may be had at the office of the Custodian or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

AS THE EDITOR SEES IT

(Continued from Page 732.)

would usually mean general foreman, timekeepers, labor agents.

Labor.—Labor is perhaps the most difficult item in the computing of cost which a contractor has to deal with. Rates have been rising for several years and it is apparent that wages have not reached their peak. Provision must be made somewhere to protect against what the bidder considers the maximum rate which will accrue during the life of the contract.

Loss on Board.—In most cases there is a definite board loss in connection with camps. While this may not be true with large camps, working through a considerable period of time, the small movable camp such as in vogue on highway work usually contributes a constant loss to the work.

Transportation of Labor.—This is an item very often neglected, yet it is very common to have to advance railway fare to laborers with the resulting increase in the cost of work.

Tools.—Contractors often fail to make the proper allowance for tools. Careful analysis of work done will show that a tool item is a very appreciable one in every contract and will also indicate that tools do not carry any too well from job to job but there is a definite and heavy loss on every job in connection with this item.

Plant Rental.—As mentioned before this should be covered by special paper.

Supplies.—This is an item which is often neglected as being a minor consideration. On certain classes of work it is really, instead, a very heavy item. The cost of packing, grease, hose, rubber boots and other rubber goods, should be given careful consideration and the contractor will save himself money by checking up his past work and arriving at a clear understanding of what such costs really are.

Runining and General Repairs.—These should be discussed in connection with the use of plant, of plant rental, but in any case the contractor must understand that they are necessary parts of the cost of doing a piece of work.

Special Machinery.—On many contracts it is necessary to employ in addition to an ordinary contractor's plant some special form of machinery either purchased from a manufacturer or built by the contractor for the work. In either case plant rental is not a proper charge for this class of equipment. The entire cost of it less its scrap value must be charged to the one job on which it is used, otherwise a contractor may complete a large amount of work and find the

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entire profits tied up in machinery which has little value other than scrap.

Fuel and Power.—The cost of power especially varies so much in different localities that the bidder should acquaint himself carefully with the local conditions. If a large amount of fuel is involved careful allowance must be made for the hauling and handling of the same.

Water.—This item often becomes a serious obstacle to the proper handling of work and is one that reguires a great deal of attention. It sometimes adds very materially to the cost. In addition to this we wish to impress all contractors with the desirability of investigating the available water supply in connection with a given piece of work before making their figures.

Cost Keeping.—We cannot close the discussion of cost estimating without dwelling for a moment on the question of cost keeping. The fact that so many contracting concerns are closed out of business each year is a strong indication that something is not correct with the way construction work is figures. A good deal of it comes from neglecting a number of items which we have mentioned above and which do not appeal to some men as being of enough moment to give direct consideration to when making figures. Other trouble comes from not keeping careful cost data of work done and analyzing such costs.

It is not the purpose of this paper to go into detail regarding such things, but we believe that a contractor should avoid using manufacturers' statements of operating costs as wel as any other stop-watch methods, as they usually spell loss if not disaster. A certain amount of work done per day with a crew operating at a certain expense per day never means that the division of that daily cost by the daily output is the unit cost of the item in question. There are delays and other things which so affect this price that it may be over one hundred per cent out from the actual cost when all things are taken into consideration.—*Associated General Contractors Bulletin.*

TRENCH CAVE-IN KILLS WORKER

BY J. J. ROSEDALE, CONSTRUCTION ENGINEER.

While a laborer was excavating a trench for the foundation of a four-story building in the city of San Francisco, the 2-inch sheeting collapsed, burying and crushing this worker to death.

Upon arriving at the scene of the accident it was found that the San Francisco Fire Department was enaged in rescuing the deceased, and after two hours of strenuous work succeeded in extricating the body from the bottom of the trench.

The trench was excavated at the side of an adjoining wall of a building in a loose sandy loam soil to a dept of 10 feet and had been opened up for a distance of about 60 feet. A width of 3½ feet had been maintained throughout its length. The trench was sheeted with 2-inch by 8-inch planks 8 feet long, placed horizontally and supportd by 6-inch by 6-inch vertical posts spaced 8 feet center to center. These posts only supported the sheeting at the ends and left 7 feet 6 inches of the sheeting unsupported between each pair of vertical braces. The horizontal strut braces supporting the vertical posts consisted of only 2-inch by 4-inch scantlings placed near the top of each post and none were placed in the middle or bottom of the trench. These horizontal braces were placed loosely between the posts and wall of the adjoining building, and were of no value as supporting elements. Owing to the considerable pressure in the center of the sheeting between each pair of vertical braces, and inadequate horizontal strut braces to support these vertical posts, the trench caved in.

This accident should have been avoided if the following precautions had been taken:

The vertical posts should have been placed at least 5 feet on centers and supported by 4-inch by 6-inch horizontal strut braces, placed at least 3 feet on centers and normal to both the wall and vertical braces, cleated and rigidly wedged. This method should have afforded ample protection against a cave-in and would have only increased the cost $25 for sheeting and bracing the trench, and saved a life and $4,446 which was paid the widow for compensation.

—*Architect and Engineer.*

PEP PARAGRAPHS

Plums fall to those who go after them.

Get a bead on the target, then blaze away.

It takes a lotta pull to push some boobs ahead.

Confidence is half the battle; the other half is action.

If work were half as popular as play, we'd all be happy and gay.

Most people grade about the same as the roads along which they live.

Many a man's more interested in how he's sold than in what he's bought.

You can't sail straight through an island, but y ou can tack around it.

Don't start up a blind alley; go where you can see something ahead.

What you don't say frequently is of more importance than what you do.

It's said that woman always has the last word, yet it's always man that reminds you of it.

It's true that some kinds of work are of more importance than others; but the guy who can't see the importance of another fellow's work is a pretty poor excuse of a man.

(Copyright, 1920, by S. A. Chandler.)

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

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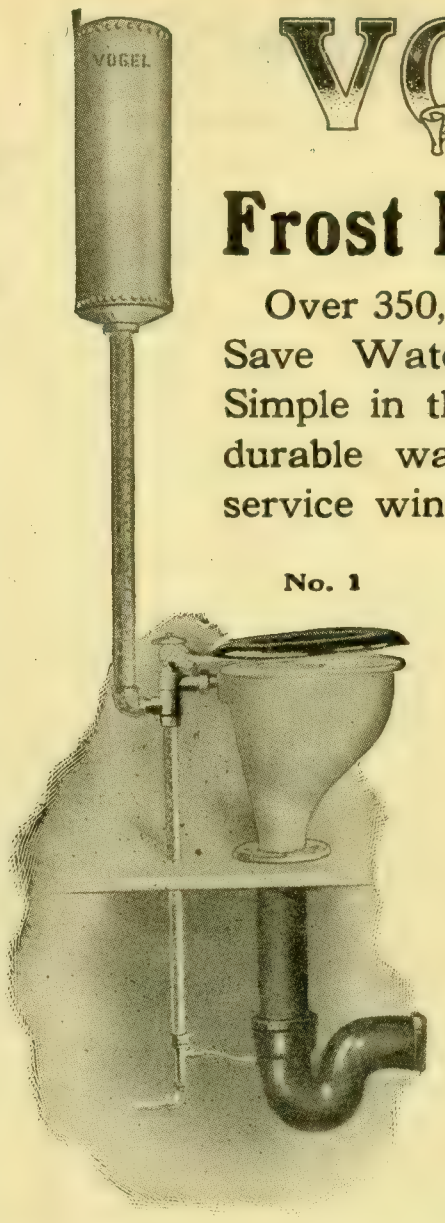
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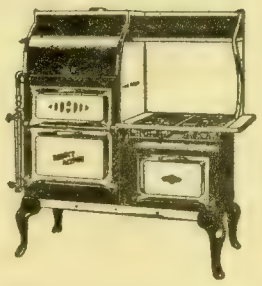
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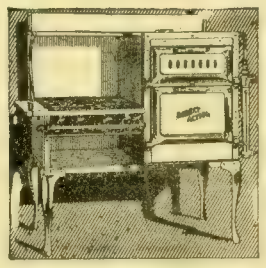


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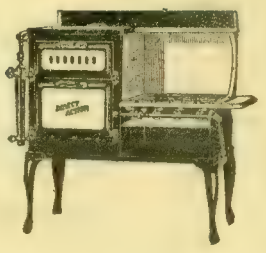
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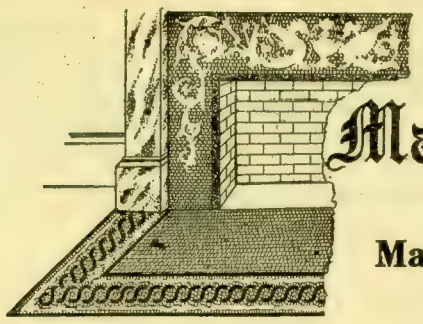
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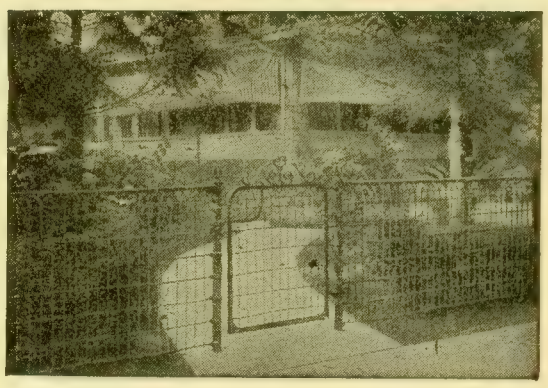
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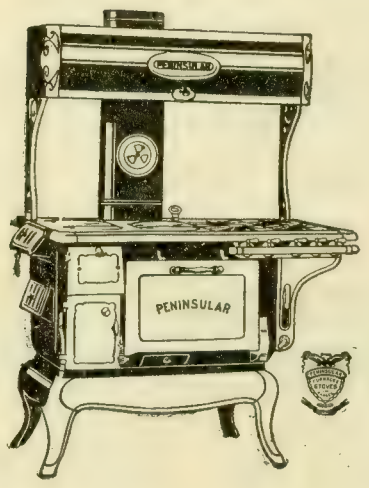
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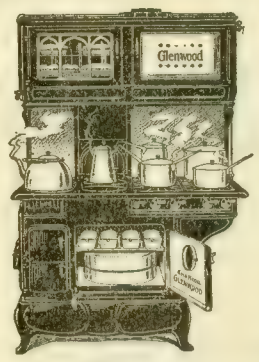
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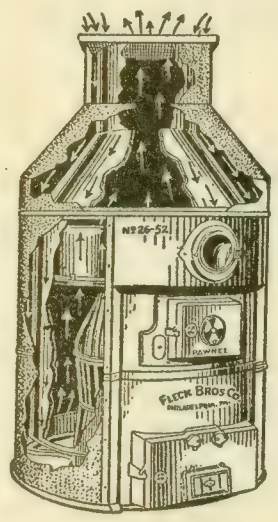


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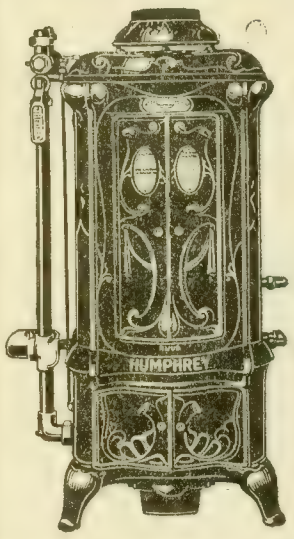


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VOLUME XXXV
Number 34

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August 25, 1920

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As The Editor Sees It

ARCHITECTS and the Building Trades are appealed to in an effort to help in the glass situation. All can help. Insurance premiums are cut heavily by co-operation with companies.

If architects, says the *Eastern Underwriter,* could be brought to a realization of the unusally unsatisfactory conditions in the plate glass manufacturing field, and would draw their plans accordingly, much heavy expense and serious trouble might be saved owners of stores and mercantile establishments. Glass is now so excessively expensive and insurance premiums so high in consequence that unless property owners are to be saddled annually with an added and unnecessary expense, more consideration must be given to the size of plates used and the manner in which they are set.

The craze for large lights in stores and for large elaborate fronts in which clamped glass is used, is still indulged in to a surprising extent, in view of the practical impossibility of obtaining glass of the size necessary to make replacements.

Insurance companies that insure glass have at their disposal much valuable information concerning the cost of various sizes of glass and what might be saved by property owners if they could be induced to use sizes within certain limits. Also, they can tell how the use of certain sizes and setting them in various ways will affect the glass insurance premiums. In a surprisingly large number of cases an apparently slight difference in the method of designing a store front would save the owners many hundreds of dollars in insurance premiums and at the same time render him far less susceptible to loss and annoyance. Particularly is this true now when glass is so difficult to obtain.

The insurance companies stand ready and willing to give this information to architects and property owners if they would co-operate with the insurance companies when contemplating new work or alterations.

Plate glass insurance premiums have been advanced more than 300 per cent and the insurance companies are not to blame, because the price of glass has gone up in greater proportion than have the premiums. Fortunately for the companies they now have the means of knowing, through the investigations of an expert rater just what their losses are in given localities and on specified types of glass settings. They are prepared to give valuable advice concerning whether certain installations are advisable in a given location. They know now more nearly than any other time in glass insurance experience what rate they should get for various kinds and sizes of glass.

The companies are losing business every day because of the high rates they find it necessary to charge. There isn't anything the companies would welcome more than a reduction in the cost of glass, so that they might begin a downward revision of their rates. Even where companies are confronted with the loss of business they now believe that it is better to let the business go than to accept it at a reduced rate. In the West the Lion Bonding & Insurance Company is accepting business at reduced rates. It is one of the few companies that does not follow the rates in use by 99 per cent of those in the glass insurance business.

There are many opinions among glass insurance men as to just why glass is now so high. Some charge it to speculation. However, the condition exists and there appears no immediate relief, so the only solution of the difficulty seems to lie in co-operation among insurance companies, property owners and architects to so lay out plans that breakage will be reduced to the minimum and replacements be made possible, if not easy.

Plate glass is now being sold to the highest bidder, practically. This is particularly true of the larger sizes. A large light is worth anything the manufacturer or jobber can get for it. There is no market, one may say. Insurance companies find it difficut to do business with manufacturers direct. They often have to do business with others, which leads to the opinion that prices are being

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manipulated by speculators. Besides there is the tremendous uncertainty in deliveries, the difficulty in having glass set and innumerable annoyances all along the line.

Getting back to architects; if they would use their influence with property owners to have smaller lights put in and the glass placed in substantial settings, they could do much to relieve the situation. Most architects do not realize how much a property owner might save by using lights of a size more easily obtainable in the present market. Take, for example, a light 144 x 184 inches. The annual insurance rate on this light would be $441.60, to which must be added 25 per cent. for replacement with but one light. This makes the premium $552.20.

Now suppose that this light could be replaced with two 92 x 144 inch plates. Each of these smaller lights could be insured for a premium of $31.24, or $62.48 for the two. This is just about 12 per cent of the premium for the one big light.

Insurance agents who wish to render a real service to property owners could not do better than inform their clients of the methods by which they may avoid excessively high insurance premiums and also reduce the likelihood of breakages and long delays in making replacements. Such service comes distinctly within the province of a live insurance agency.

Many glass insurance companies are encouraging the splitting of big lights, and some property owners are having it done, notwithstanding that they prefer the large lights. This splitting of existing glass store fronts is sometimes done horizontally and sometimes perpendicularly. The former is preferred by insurance companies, as they consider that it looks better and is less noticeable from the street. They advocate what they term a landscape line. This is effected by a bar of sufficient strength inserted horizontally about two-thirds up from the bottom of the light. This takes the break out of the line of vision of those in the street who view the contents of the window.

It does not cost much to make these splits. It may be $10, $15, $25, and in extreme cases $50, according to the setting of the glass, the woodwork finish and other conditions. But in any event the cost is so small as compared with the difference in insurance premium, as to make the proposition highly attractive to owners who might be seriously inconvenienced if a large light broke.

In New York today it is almost impossible to get large lights, and when they are obtained, the price may be any way from $1,500 to $2,800. The insurance companies are steadily refusing to write this class of business and, where it is taken, they insist upon a clause in the policy permitting them to replace with two lights instead of one. Where one light is insisted upon, 25 per cent is added to the rate, but this doesn't do the insurance company much good. The advance is too small considering the extra risk assumed. It is noticed that while many houses are refusing to carry plate glass insurance at the present high rates, others who never carried it before are coming into the market. They become frightened when they realize what it would cost to make replacements.

THEATRE BUILDERS GET REQUIREMENTS

Specifications for architects and builders regarding the construction, alteration or repairing of buildings in which public entertainments are given were issued August 1st by Clifford B. Connelley, commissioner of labor and industry. They are drafted from the provisions of the state's laws and apply to theatres, motion-picture houses, auditoriums or any public halls where stage scenery is used.

It is provided by the specifications that the location must be suitable for the purpose, and that no steps will be allowed at the entrance of exits others than one of eight inches rise, because of weather conditions. All other differences in elevation between the floor and ground level must be overcome by means of inclines which cannot exceed one foot rise in ten feet. If side and rear courts are necessary, they must be not less than five feet wide in the clear, and they must lead to a street or alley. All doors opening into the courts must be made to swing flush within the wall.

Exits cannot be less than five feet in width or more than six feet wide in the clear. They must have out-swinging double doors, equipped with approved panic locks. The colored illuminated "exit" sign must be placed at each door. All aisles having seats on both sides must not be less than four feet wide in the clear and wall aisles must be at least three feet, six inches wide. Cross aisles must be five feet wide. It is provided that there shall not be more than six seats between any one seat and an aisle and not more than fourteen seats between any two aisles. Seats must be eighteen inches between the arms and thirty inches from back to back of rows. They must be fastened securely to the floor and the front rows cannot be closer than twelve to the screen, and the rear seats five feet from the foyer wall.

The specifications provide that picture booths be constructed to conform with the motion-picture act of 1919, and that wiring must be done in accordance with the electric code and rules of the Underwriter's Association, while the stage must conform with the fire and panic act of 1909. Galleries must be constructed according to general requirements, and in buildings hereafter erected means of egress must be within the walls of the building. Plans for these buildings must be submitted in duplicate to the Department of Labor and Industry for approval.

(Coninued on Page 758.)

—Not a Slogan

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (38), Ogontz avenue, Limekiln pike and Chelten avenue. Architect, private plans. Owner, Jacob M. Faust, 4611 North Broad street, Philadelphia. Brick, 2 stories, slag roof, hardwood floors, hot water heating, electric lighting. Plans in progress.

Residence (alts.), Fifty-fourth and Overbrook avenue, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, name withheld. Interior alterations, new bath room, oak floors, electric light, tile work. Plans in progress.

Store Building, 827 Arch street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, name withheld. Painting, electric fixtures, stone foundations, slag roof, cement floors, steam heat, electric light, tile and marble work, metal lath, iron work. Ready for bids.

Offices (alts.), 1419 Spruce street, Philadelphia. Architects, Folsom & Stanton, Fuller Building, Philadelphia. Owners, Dr. George C. Spears and Dr. Clarence S. Steigerwald, Flanders Building, Philadelphia. Glass partitions, cabinet work, mill work, plumbing, composition floors, electric lighting. Wills-Ludwick Co., 1708 Sansom street, are figuring and owners taking sub-bids.

Store (alts.), 32 North Fifty-second street, Philadelphia. Architects, Folsom & Stanton, Fuller Building, Philadelphia. Owner, William Roach, on premises. Bulk windows, cement work, mill work, cement floors. Owner taking sub-bids.

Building (alts.) to Club House, 1209-11 St. James street. Architect, Paul P. Cret, 1535 Chestnut street, Philadelphia. Owner, name withheld. Brick work, repairing roof, plastering, painting, carpentry, marble work, electric work, patching floors. Architect has received bids.

Residence, Fifty-fourth and Wynnefield avenue, Philadelphia, $30,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, R. A. Ferguson, 6238 Christian street, Philadelphia. Brick and stone, 2½ stories. Plans in progress. Too early for details.

Church, Twenty-fourth and Wolf streets, Philadelphia. Architect, Robert A. Schumann, 932 Lamberton street, Trenton, N. J. Owner, Holy Ghost Greek Catholic Cong., Rt. Rev. Gabriel Mastyka, administrator, on premises. Brick and stone, 1½ stories, 118x46 feet, stone foundations, slate roof, tile, concrete and N. C. pine floors, steam heat, electric light, tile work, metal lath, metal ceilings, iron work. Architect taking bids due August 28th. Wills-Ludwick Co., 1708 Sansom street, and Bowden Const. Co., 1713 Sansom street, Philadelphia, are figuring.

Work Shop, Northeast Corner Salmon and Pickwick streets, Philadelphia, $6,000. Architect, private plans. Owner, J. M. Kennedy, 406 South Van Pelt street, Philadelphia. Brick, 1 story, 120x50 feet, slag roof. Owner will build.

Residence (alts.), 2549-51 East Indiana avenue, $3,000. Architect, private plans. Owner, Dr. F. G. Voss, 2935 Richmond street, Philadelphia. General interior alterations. Owner will build.

Building, 1522-24 Fairmount avenue, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Benjamin Barron, Commonwealth Building, Philadelphia. Brick and steel, 1 story, 123x36 feet, stone foundations, slag roof, cement floors, steam heat, electric light, galvanized iron skylights. Architect taking bids. John Schnable, Denckla Building; D. Henwood, 717 South Sixty-third street, and E. E. Hollenback, Inc., 1804 Brandywine street, are figuring.

Building (rear add.), 45 North Seventh street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owners, Kraftsow & Titleman, on premises. Carpentry, mill work, iron work, painting, glazing. Architect taking bids. Smith-Hardican Co., 1606 Cherry street, and Kober Const. Co., 34 South Seventeenth street, are figuring.

Office Building, 50 South Third street, Philadelphia. Architects, Dreher, Churchman, Paul & Ford, 1424 Walnut street. Owners, James Gallagher, Inc., 17 South Third street, Philadelphia. Brick, 2 stories, 26x14 feet, stone foundations, slate roof, composition floors, warm air heating, electric lighting, metal lath, iron work. Architects have received bids.

Office Building, 735 Sansom street, Philadelphia. Architect, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Joseph Matz, 731 Sansom street, Philadelphia. New brick front and rear add., 4 stories. Plans in progress. Too early for details.

Property (alts. and add.), New Garage, Southwest Corner Eighteenth and Pulaski avenue. Architect, E. A. Wightman, 1213 Filbert street, Philadelphia. Owner, William G. Friedgen, Southwest Corner Eighteenth and Pulaski avenue, Philadelphia. Brick and steel, garage, 1 story, 15x22 feet, new porch, 11x21 feet, stone foundations, slag roof, oak and cement floors, repairing heating system, electric lighting, tile and marble work, iron work. Owner has received bids.

Stores, Offices and Apartments, Fifteenth and Spruce streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, R. J. Seltzer, 400 Chestnut street, Philadelphia. Brick, 4 stories, 50x205 feet, slag roof, hardwood floors, elevators, steam heat, electric light, tile and marble work, elevator, flush bulks, fire tower, steam or vapor heating. Owner taking sub-bids.

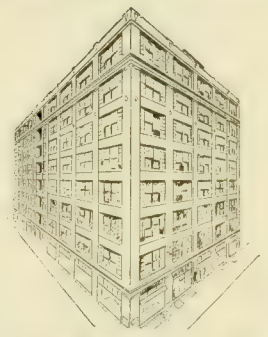
Store (alts.), 52 North Third street, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, S. Frank, care of architect. New bulk, steel work, mezzanine floor, steam heating, electric lighting, tile work. Owners has received bids.

Bank (alts. and add.), Broad and Airdrie streets, Philadelphia. Architect, Philip Merz, Pennsylvania Building, Philadelphia. Owners, National Bank of North Philadelphia, on premises. Brick, stucco, stone, steel, fireproof, 3 stories and basement, 27x30 feet, stone foundations, composition roof (heating, plumbing and electric work reserved), tile work and marble work, metal lath, fire doors, waterproofing, iron work. Architect taking bids. H. P. Schneider, 3713 Old York road; F. B. Davis & Son, 240 North Sixteenth street; A. R. Raff Cont. Co., 1635 West Thompson street; F. G. Stewart, 1619 Sansom street, and Jacob Y. Loux, 3731 Old York road, are figuring.

Stores (3), Broad and Snyder avenue, Philadelphia, $5,000. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, William Freihofer, Tenth and Indiana avenue, Philadelphia. Brick, 1 story, 16x27 feet, slag roof, cement floors, gas steam heat, electric light, metal lath. Ready for bids.

Lumber Store House, Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, Frankford Arsenal, Philadelphia, care of Major J. Lumsden. Brick, concrete and steel, 1 story, 247x80 feet, stone foundations, Johns Manville built-up roof, cement floors, hollow tile. Bond. Owners taking bids due August 31st. Hughes-Foulkrod Co., Commonwealth Building; Ketcham & McQuade, 1029 Brown street; Monaghan & Losse, Inc., 3016 Chestnut street; Thomas Reilly, 1616 Thompson street; W. W. Anstine Co., 1218 Filbert street; William R.

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Dougherty, 1610 Sansom street; M. Melody & Son, 1322 Race street, and F. A. Havens Co., 845 North Nineteenth street, Philadelphia, are figuring. (Bond.)

Residence, 6379 Woodbine avenue, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Cornelius Baker, 119 South Fourth street, Philadelphia. Brick, 2½ stories, 33½x46 feet 9 inches, stone foundations, slate roof, oak floors, central heating plant, electric lighting, tile work. Architect taking bids due August 26th. Tourison & Tourison, 1011 Chestnut street; William J. Gruhler Co., 219 East High street, Germantown, and Milton W. Young, Overbrook, Pa., are figuring.

Store Building (alt.), 3711 Spruce street, Philadelphia. Architects, Folsom & Stanton, Fuller Building, Philadelphia. Owner, B. Cohen, on premises. New front, brick work, stone work, cement work, 1 story and basement, gas steam heating, electric lighting, composition floors. Architects taking bids due August 31st. James J. Murphy, 3319 Chestnut street; France & Missar, 3324 Chestnut street; Frank Hall, 7039 Greenway avenue, and Morris Lieser, 814 Winton street, are figuring.

Store Building (alts.), 3709 Spruce street, Philadelphia. Architects, Folsom & Stanton, Fuller Building, Philadelphia. Owner, Louis M. Kolb, 3709 Spruce street, Philadelphia. New front, brick, stone work, cement work (electric work reserved), gas steam heat, electric light, composition floors, marble work, metal lath. Architect taking bids due August 31st. James J. Murphy, 3319 Chestnut street; France & Missar, 3324 Chestnut street; Frank Hall, 7039 Greenway avenue, and Morris Lieser, 814 Winton street, are figuring.

Residences (2) (Alts. and add.) to Fraternity House, 3425-27 Walnut street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Philadelphia Branch of United Synagogue of America, care of architects. Brick, 1 story, 16x36 feet, slag roof, composition, pine, cement and tile floors, steam heating, electric lighting, tile work, plumbing, ornamental iron work, steel reinforcing beams. Architects will be ready for bids in a few days.

Apartment House (alts. and add.) and (4) Garages, Thirty-fourth and Lancaster avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Three-story addition to building. Garages, brick, 1 story, 12x18 feet, slag roof, cement floors, hot water heating, electric lighting, tile and marble work, hardwood floors, built-in beds, plumbing. Architect will be ready for bids in one week.

Building (alts. and add.), 1424 Walnut street, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, John N. Nelson Co., 1424 Walnut street, Philadelphia. Brick, one-story addition, 14x15 feet, slag roof, pine floors, stone foundations, rolled steel sash, iron work. Architect taking bids, due August 30th. Ketcham & McQuade, 1029 Brown street, and W. O. Springer, 2004 Naudain street, are figuring.

Residence (alts.), 1729 Arch street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, G. Percy Fox, 2524 Girard avenue, Philadelphia. General remodeling of four-story residence into 8 suites of offices, new partitions, hardwood floors, steam heating, electric lighting, tile and marble work. Architect taking bids, due September 7th at noon. I. K. Davis, 6100 North Twentieth street; J. D. Fisher, 5424 Thompson street; P. Haibach Cont. Co., Twenty-sixth and Thompson street; LeRoy K. Smith, Forty-first and Chester avenue, and Julius Nelson, 29 Cherry street, Sharon Hill, Pa., are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

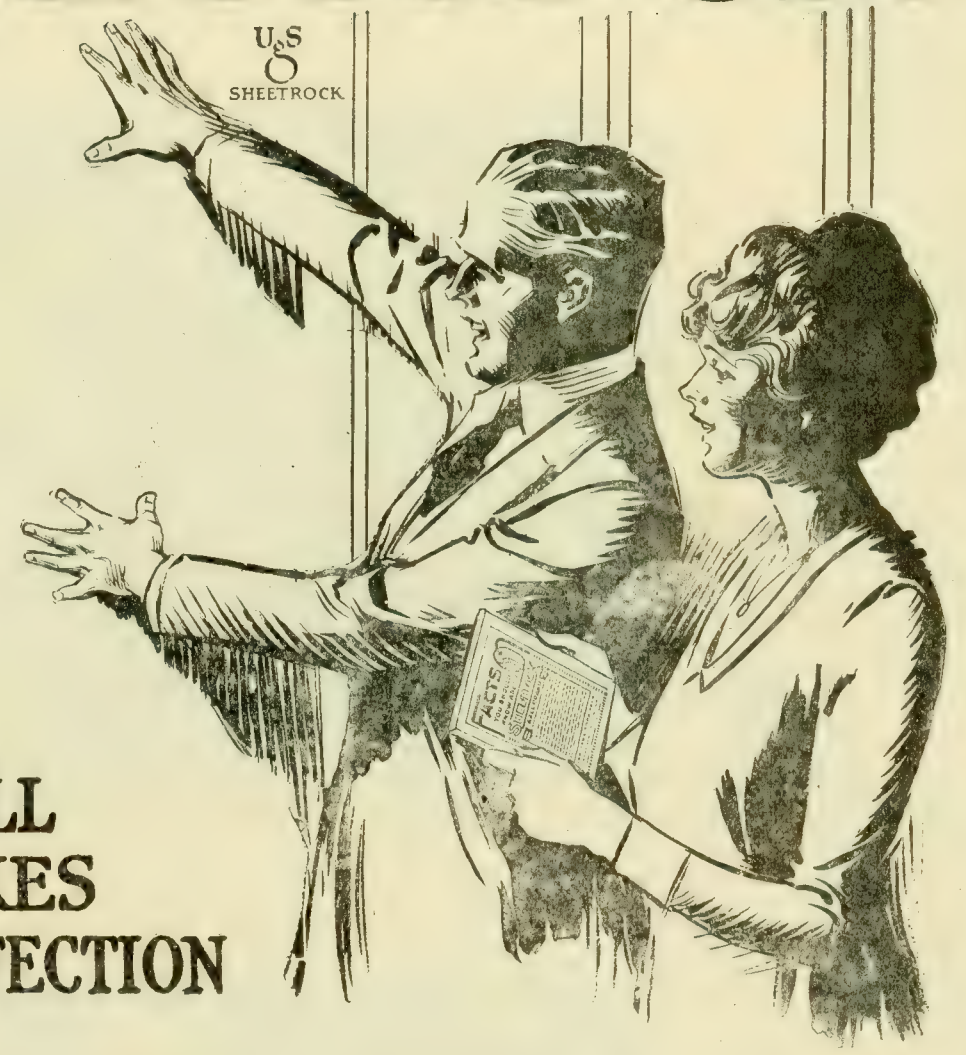
Church, Hershey, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owner, Roman Catholic Church, care of Rev. P. J. Phelan, Cathedral, Harrisburg, Pa. Frame, 1 story, 78x36 feet, slate roof, stone foundations, pipeless heater, electric light. Contract awarded to John L. Stapf, Harrisburg, Pa.

Residences (3), Wynnefield, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Stone and brick, 3 stories, 50x50 feet, slate and tile

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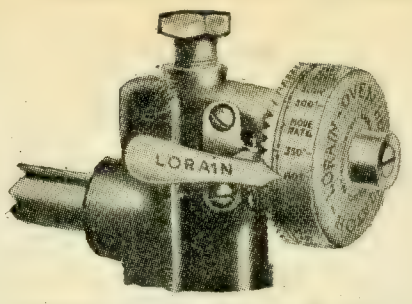
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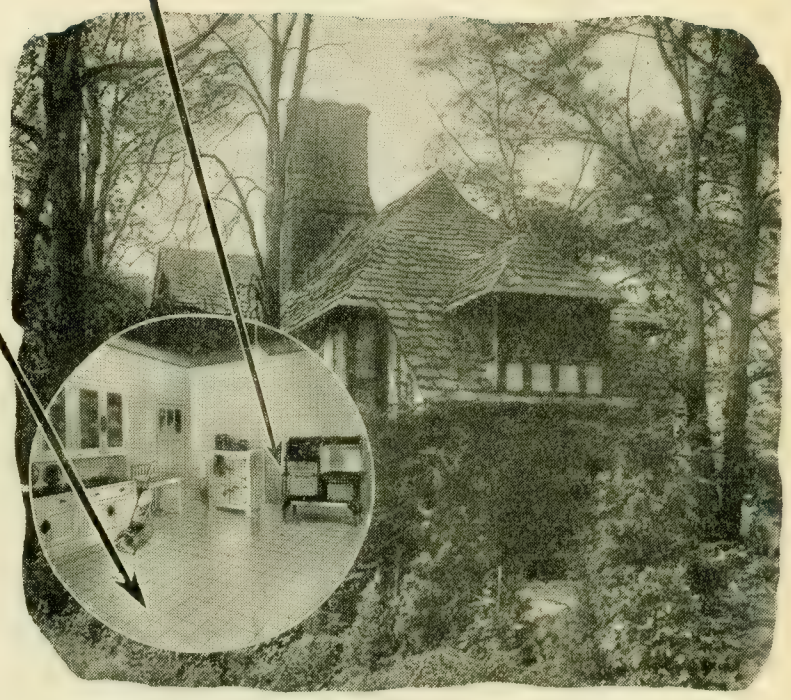
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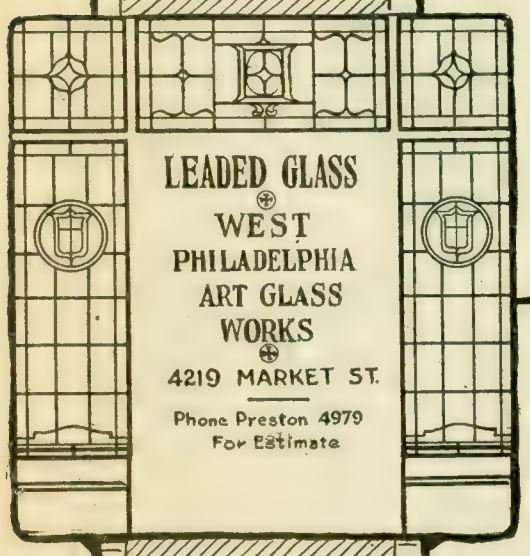
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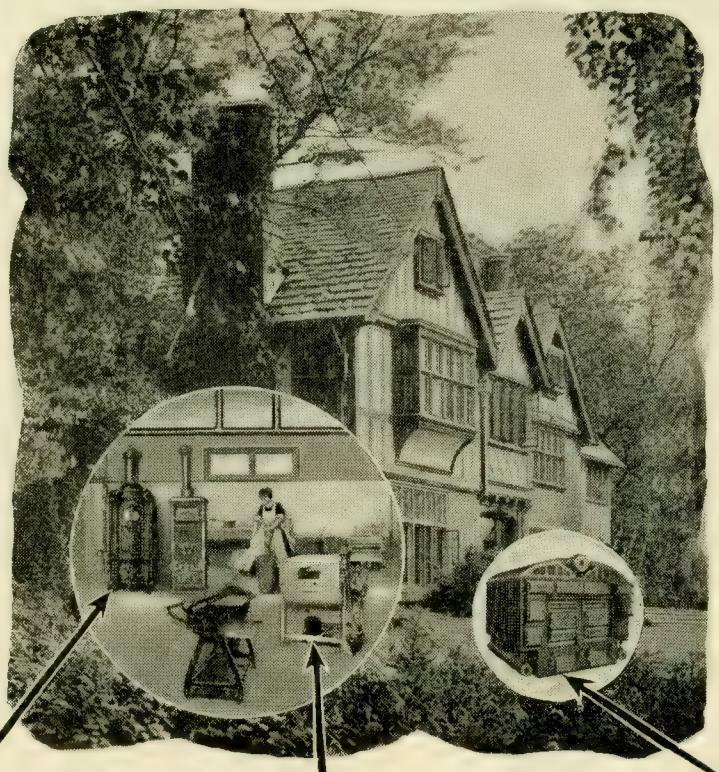
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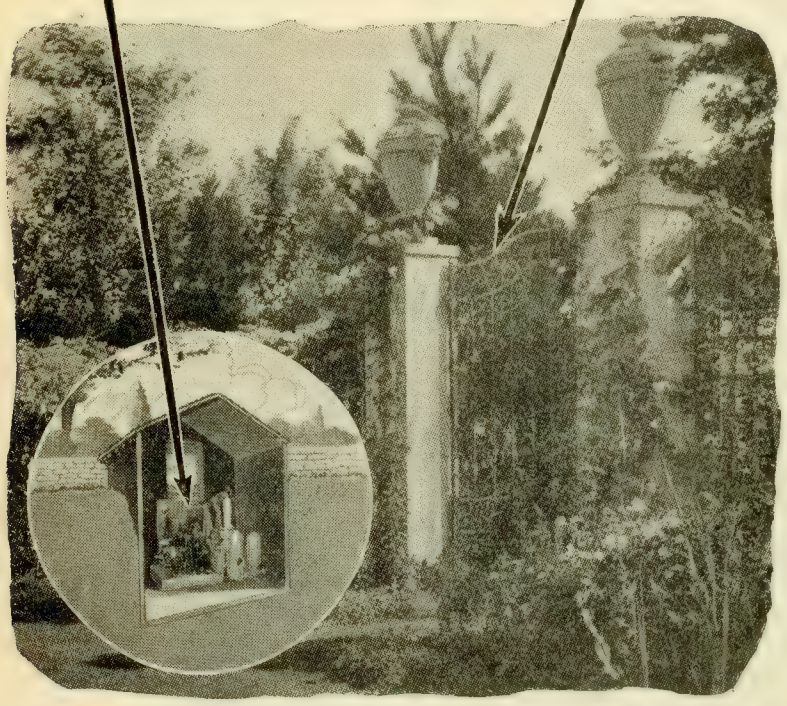
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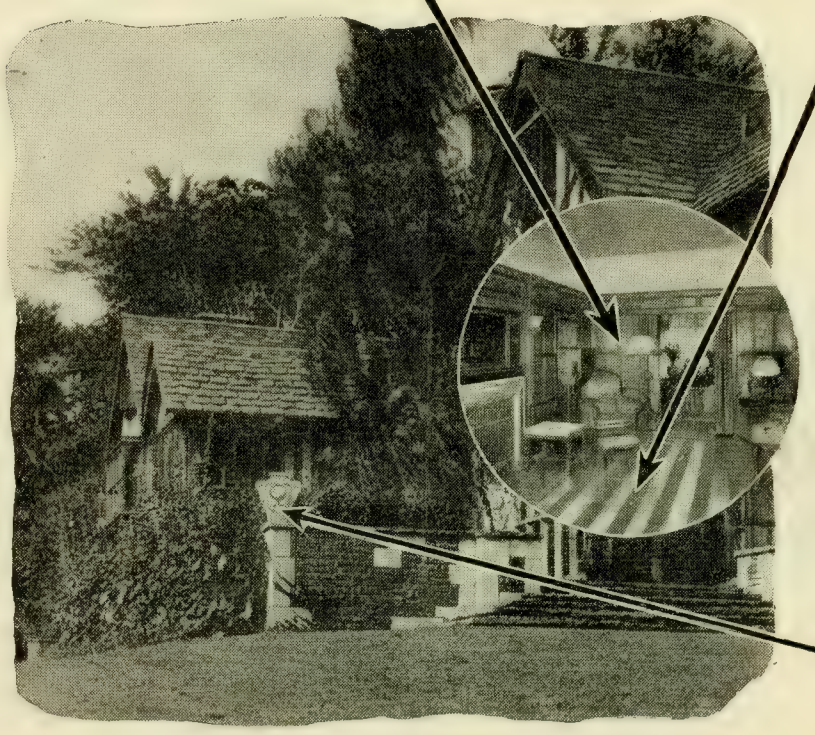
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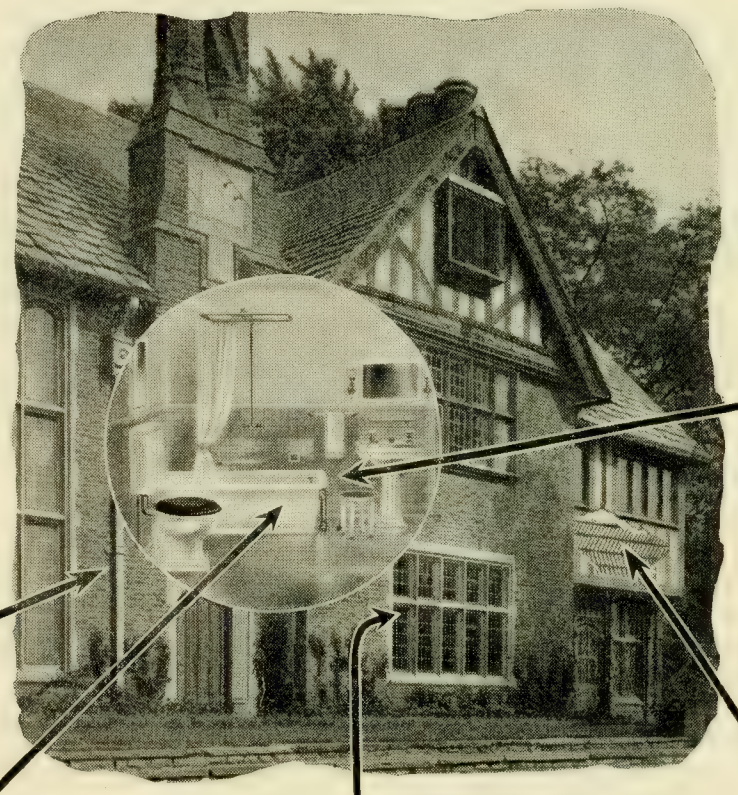
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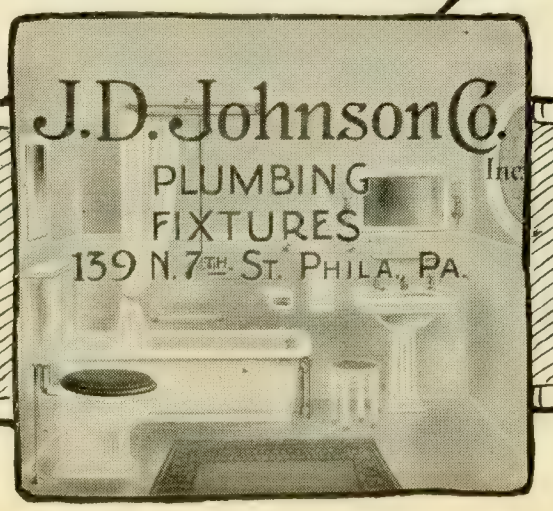


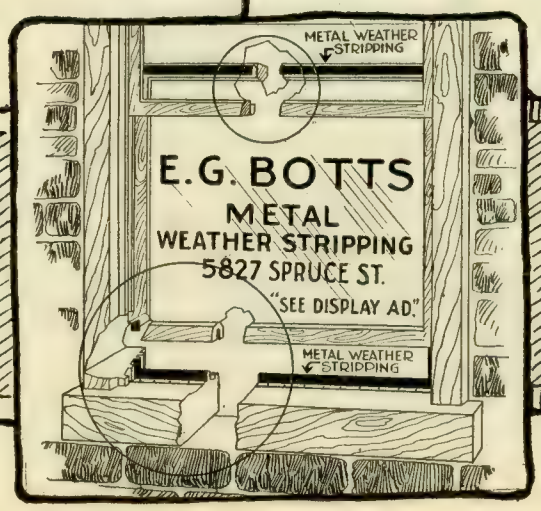


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roof. Contract awarded to Essick Const. Co., 1345 Arch street, Philadelphia, who are taking sub-bids.

Garage, 1316-18-20 Poplar street, Philadelphia, $25,000. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, W. K. Parker, 309 Finance Building, Philadelphia. Brick, 2 stories, 51x37 feet and 51x140 feet, slag roof, steam heat, electric light, cement floors. Contract awarded to A. Hartman, 924 Bulletin Building, Philadelphia.

School, Sixty-third and Buist avenue, Philadelphia, $85,000. Architect, Paul Monaghan, 1218 Chestnut street, Philadelphia. Owner, St. Barnabas' Roman Catholic Church, care of Rev. James E. Dougherty, premises. Stone, brick, concrete, steel, 4 stories, 63x146 feet, composition roof, cement floors, electric light, hollow tile, metal lath, safety treads, marble and terrazzo work, blackboards, kalamein doors, ornamental iron work (heating reserved). Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Residence (alts.) to (5) Family Apartments, Seventeenth and Oxford streets. Architect, Ellery K. Taylor, 1627 Sansom street, Philadelphia. Owner, E. S. J. Conway, care of architect. Changing three story dwelling into (5) family apartments. Brick, 1 story add., 120x20 feet, slag roof, changing partitions, steam heat, electric light, plumbing, plastering, painting, papering. Contract awarded to J. Jones Davies, 3931 Walnut street, Philadelphia.

Sunday School (alts. and add.), 2019 East Allegheny avenue, $5,000. Architect, private plans. Owner, East Allegheny Methodist Episcopal Church, care of Dr. Frank Lynch, premises. General interior alterations. Contract awarded to A. Earl Barnes & Co., 2048 East Wishart street.

Office (alts.), 212 South Third street, Philadelphia, $10,000. Architect, private plans. Owner, Alliance Insurance Co., on premises. General interior alterations. Contract awarded to A. R. Raff, 1635 Thompson street, Philadelphia.

Sales and Service Building, 661 North Broad street, Philadelphia. Architects, MacKenzie, Wiley & Frid, Liberty Building, Philadelphia. Owner, J. G. Duncan, Jr., 1228 Race street, Philadelphia. Brick and steel, 2 stories, 18x100 feet, slag roof, oak, maple and terrazzo floors, metal lath, iron work, hollow metal skylights, electric lighting, steam heating, stone foundations. Bond. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Garage, Fifth and Berks streets, Philadelphia, $35,000. Architect, John H. Hamilton, 420 Somerville street, Philadelphia. Owner, McCaffrey File Works, on premises. Brick, 2 stories, 83x147x74x82 feet, irregular, slag roof, cement and pine floors, metal lath, rolled steel sash and skylights, stone foundations(heating and electric lighting reserved), iron work. Contract awarded to Robbins Cont. Co., 1137 North Front street.

Residence (alts.), 1626 North Franklin street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Samuel Englander, 1630 North Franklin street, Philadelphia. General alterations, electric lighting, plastering, painting, new heating system. Contract awarded to Jacob Gorchov, 4116 Girard avenue, Philadelphia.

Conservatory of Music (alts.), 1317 South Broad street, $3,000. Architect, private plans. Owner, Gilbert R. Combs, 1331 South Broad street, Philadelphia. Carpentry, steam heat, electric work, plastering, painting, glazing. Contract awarded to Charles R. Davis & Son, 1500 Ellsworth street.

Garage, Front and Girard avenue, Philadelphia, $8,000. Architect, private plans. Own-

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er, William P. M. Irwin, Chadds Ford, Pa. Brick, 1 story, 33x81 feet 5 inches, cement floors, electric light. Contract awarded to Frank G. English, 1608 North Carlisle street.

Mill Building, Twenty-first and Lippincott streets, Philadelphia. Architect, Stanford B. Lewis, Dexter Building, Philadelphia. Owner, Glen Knitting Co., Second and Westmoreland streets, Philadelphia. Brick and concrete, 5 stories, 145x160 feet, slag roof, maple floors, metal lath, stone foundations, terrazzo work, rolled steel sash and skylights, fire doors, iron work, elevators, dampproofing, waterproofing, sprinkling system, plumbing, steam heating, electric lighting, boiler plant. Contract awarded to A. B. MacGregor, 1628 Vine street, Philadelphia.

Elevated Station, Cont. No. 575, Frankford Elevated, Philadelphia (Front and Berks streets). Architect, private plans. Owner, City of Philadelphia, Department of City Transit, care of Director William S. Twining, 1211 Chestnut street, Philadelphia. Brick, concrete and steel, 45x16 feet, 39x24 feet, slag roof, concrete floors, stone foundations, marble work, rolled steel sash, iron work. Contract awarded to W. W. Anstine Co., 1218 Filbert street, Philadelphia.

Wagon Shed, Southwest Corner American and Green streets, Philadelphia, $15,000. Architect, private plans. Owner, American Store Co., Fourth and Willow streets, Philadelphia. Brick, 1 story, irregular size, slag roof, electric lighting. Contract awarded to A. B. Kister, 621 Sansom street, Philadelphia.

Residence (alts.), 8848 Germantown avenue, Philadelphia, $5,000. Architects, Willing & Sims, 1627 Sansom street. Owner, Henry A. Laughlin, Chestnut avenue, Chestnut Hill. General alterations. Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

Building (alts.), 1028 Arch street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Peter O'Connor, care of architect. Brick and steel, 3 stories, 22x133 feet, slag roof, pine floors, stone foundations, steam heat, electric light, iron work. Contract awarded to John Mauer & Co., 1546 North Lawrence street.

Rectory (alts.), Broad and Duncannon streets, Logan, Philadelphia, $4,750. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, Holy Child Roman Catholic Church, 5220 North Broad street, Philadelphia. Stone, brick, steel, 3 stories, 94x42 feet, slate roof, pine, oak, composition and tile floors, metal lath, marble and terrazzo work, ornamental iron work. Contract awarded to McLaughlin & McNally, Eighty-first and Suffolk avenue.

Fire Tower, Northwest Corner Sixth and Market streets, Philadelphia, $6,000. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owners, Snyder Bros., on premises. Brick and steel, 4 stories, 10x6 feet, slag roof, concrete floors, electric light, stone foundations. Contract awarded to Penn Eng. & Const. Co., 3817 Spring Garden street, Philadelphia.

Mill Building, Sedgley avenue and L street, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Edw. B. Steinmetz Co., Inc., Huntingdon and Hancock streets. Reinforced concrete, 2 stories, 48x104 feet, slag roof, cement floors, metal lath, waterproofing, dampproofing, iron work, fire escapes, rolled steel sash, hollow metal skylights, fire and rolling steel doors, concrete foundations (heating, electric lighting and plumbing and elevator reserved). Contract awarded to John R. Wiggins Co., Otis Building, Philadelphia.

Store (alts. and add.), northeast corner of Front and Wishart streets, Philadelphia. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owners, A. & C. Weisbrod, Front and Allegheny avenue, Philadelphia.

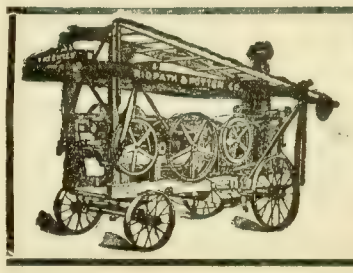


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Brick, second story addition, 36x20 feet, slag roof, steam heating, pine floors, steel work, iron work. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Store and Dwelling (alts.), 4127 Lancaster avenue, Philadelphia, $4,735. Architect, private plans. Owner, Wm. McIntyre (agent), 4080½ Lancaster avenue, Philadelphia. General alterations, electric lighting, new front. Contract awarded to D. F. Hoover, 4047 Warren street, Philadelphia.

Pennsylvania Construction News

Church (alts. and add.) and Sunday School (rebuilding), Ashbourne, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Ashbourne Presbyterian Church, Rev. Richard Montgomery, on premises. Stone, 2½ stories, 70x60 feet, stone foundations, slate and slag roof, yellow pine floors, steam and hot water heat, electric light, tile work, waterproofing, iron work. Bond. Architect taking bids due September 7th. A. R. Raff Cont. Co., 1635 Thompson street; W. John Stevens, Inc., Wyncote, Pa., and F. L. Hoover & Sons, 1023 Cherry street; George Bond, Oak Lane, and E. Allen Reeves, Abington, Pa., are figuring.

Dog Kennels, Villa Nova, Pa. Architect, Louis H. Rush, 34 South Seventeenth street, Philadelphia; Owner, Mrs. Arthur Ringgold Spencer, Villa Nova, Pa. Brick, hollow tile and stucco, 1 story, 38x17 feet, stone foundations, shingle roof, cork and brick floors, electric lighting, metal lath, iron work. Architect has received bids.

Club House (alt. and add.), Chester, Pa. Architect, Ralph E. White, 908 Pennsylvania Building, Philadelphia. Owners, Aberfoyle Country Club, Chester, Pa. Stucco, 2 stories, 72x26 feet, stone foundations, shingle roof, composition and N. C. pine floors, metal lath, galvanized iron skylights, waterproofing (electric work and heating reserved). Bond. Architect taking bids due August 26th. John R. Wiggins, Otis Building; Edw. Fay & Son, 2 South Mole street; William Provost, Jr., Frederick Brown and R. H. Scroggins & Sons, Chester, Pa., and E. J. Heddon, Finance Building, Philadelphia, are figuring.

Stable (alts.) to Apartments, Lansdowne, Pa. Architect, Paul Monaghan, 1218 Chestnut street, Philadelphia. Owner, St. Vincent's Home, on premises. Mill work, painting, slate roof, wood, cement floors, vapor heat, electric lighting. Architect has received bids.

Bungalow, Melrose Park, Pa. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner, L. H. Manko, 313 Arch street, Philadelphia. Hollow tile and stucco, 1½ stories, 30x46 feet, slate roof, hardwood floors, stone foundations, hot water heat, electric light, tile work. Architect taking bids due August 26th. J. Riley & Son, Forrest avenue, Mt. Airy, Pa.; E. Allen Reeves, Abington, Pa.; H. H. Wehmeyer, 509 West Cumberland street; Specht & Sperry, Heed Building, and Albert Zellfelder, 151 South Broad street, are figuring.

Golf Club House, Hollidaysburg, Pa., $60,000. Architects, McLanahan & Beneker, Bellevue Court Building, Philadelphia. Owners, Hollidaysburg Golf Club, Hollidaysburg, Pa. Hollow tile and stone, 2½ stories, irregular size, shingle roof, oak floors, steam heat, electric light, marble work. Plans in progress.

Grand Hotel (alts. and add.), Main street

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Coatesville, Pa. Architect, R. A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, Isaac Foreman, 205 Main street, Coatesville, Pa. Brick and steel, 1 story, 30x100 feet, slag roof, maple floors, metal lath, tile and marble work, electric light, vapor heat, stone foundations. Owner taking sub-bids.

Bungalow, Oakmont, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John McKeeman, 1488 North Fifty-third street, Philadelphia. Stone, 1½ stories, irregular size, slate or shingle roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile and marble work. Owner is taking sub-bids.

Pennsylvania Contracts Awarded

Garage, Swarthmore, Pa. Architect, Walter F. Price, 136 South Fourth street, Philadelphia. Owner, Chautauqua Association, Swarthmore, Pa. Hollow tile and stucco, 1½ stories, 35x25 feet, stone foundations, asbestos shingle roof, cement floors, electric lighting. Contract awarded to Elmer E. Sheffer, Chester, Pa.

Church (add.), Drexel Hill, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Drexel Hill Presbyterian Church, care of Frank Reeves, Building Committee, Drexel Hill, Pa. Stone, 1st story add., 64x97 feet, slate roof, hardwood floors, stone foundations, electric lighting. Contract awarded to Bowden Const. Co., 1713 Sansom street, Philadelphia.

Elementary School (alts.), Abington, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Board of Education, Abington, Pa. New partitions, glazing, minor alterations. Contract awarded to Harry Murphy, Wllow Grove, Pa.

Residence, Paoli, Pa., $12,000. Architect, name withheld. Owner, W. L. Green, 2604 North Sixth street, Harrisburg, Pa. Plans in progress. Too early for details.

New Jersey Construction News

Residence (alts. and add.), Chelsea, N. J. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. H. Giest, Land Title Building, Philadelphia. Solarium, 20x24 feet, mill work, painting, plumbing, oak floors, tile terraces, electric lighting, tile work. Ready for bids.

Ice Plant, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, Camden Ice Co., Woodland, N. J. Reinforced concrete and brick, 40x40 feet, 40x40 feet, 80x100 feet, 20x60 feet and 60x60 feet, slag roof, concrete foundations and floors, electric lighting, refrigerating equipment. Plans completed.

Manufacturing Building, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, name withheld. Reinforced concrete, 2 stories, 60x135 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash, fire doors, roof ventilators, waterproofing, dampproofing. Lewis T. West, 828 Broadway, Camden, N. J., taking approximate bids.

Residence (alts. and add.), Haddon Heights, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, J. E. Fagen, on premises. Frame, 2 stories, 30x40 feet, new plumbing, vapor heating, tile work. Architect has received bids.

Store Building, Broadway and Spruce street, Camden, N. J. Architect, Philip H. Merz, Pennsylvania Building, Philadelphia. Owners, Henry Pinksky & Son Co., 1126 Spruce street, Camden, N. J. Steel, brick, concrete and terra cotta, 4 stories, 144x40 feet, slag roof, maple floors, metal lath, elevators, waterproofing, Peele doors, rolled steel skylights, rolling steel shutters, tile, marble and terrazzo work, electric light, steam heat, stone foundations. (Bond.) Architect has received bids.

Club House, Linwood, N. J., $125,000. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Linwood Country Club, Linwood, N. J. Hollow tile and concrete, 2 and 3 stories, irregular size, oak floors, steam heat, electric light, marble work, swimming pool. Plans in progress.

Immigration Station (alts.), Gloucester, N. J. Architect, private plans. Owner, United States Government, Immigration Bureau, care of Commissioner of Immigration, Gloucester, N. J. Plumbing and painting. Owners have received bids.

School, Glassboro, N. J., $422,000. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, State of New Jersey, Board of Education, G. Kendall, chairman, Capitol Building, Trenton, N. J. Brick, stone, terra cotta, steel, 2½ stories, 201x125 feet, wing 59x50 feet, stone foundations, slate and tin roof, maple, tile block, cement and composition floors, terrazzo floors, metal lath, tile and marble work, safety treads, hollow metal skylights, iron stairs and work. Architect taking bids, due September 14th. George Dose, 43 West Twenty-seventh street, New York, and Sherman S. Sharp, 636 Washington street, Cape May, N. J., additional bidders.

Manufacturing Building (add.), Perrine avenue, Trenton, N. J., $7,000. Architect, private plans. Owners, Puritan Rubber Manufacturing Co., Perrine avenue, Trenton, N. J. Brick, 1 story, 49x114 feet, concrete foundations, slag roof, wood floors. Owner will build.

Schools (2), Sicklerville, N. J., and Cedar Brook, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, Township of Winslow, care of Board of Education, Blue Anchor, N. J. Brick, 1 story, 40x60 feet, slag roof, pine floors, stoves. Architect taking revised bids, due August 27th. Fred Lange, Audubon, N. J.; Wm. Congezer, Haddon Heights, N. J., and Fred A. Ware, Glassboro, N. J., are figuring.

New Jersey Contracts Awarded

Theatre Lobby (alts.), Broadway and Pine street, Camden, N. J. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Towers Theatre Co., on premises. Carpentry, mill work, marble work. Contract awarded to Otto Dannenberg, Lancaster avenue and Baring street, Philadelphia.

Building, No. 12-A, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick, concrete and steel, 1 story, 205x54 feet, slag roof, cement floors, safety treads, waterproofing, iron work and stairs, fire doors, hollow metal sash, stone foundations. (Bond.) Contract awarded to White Const. Co., Inc., 95 Madison avenue, New York.

Garage, South Broad street, Trenton, N. J., $10,000. Architect, private plans. Owners,



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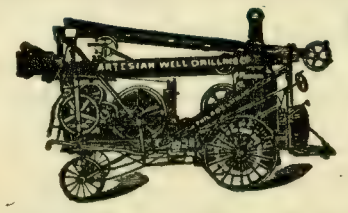
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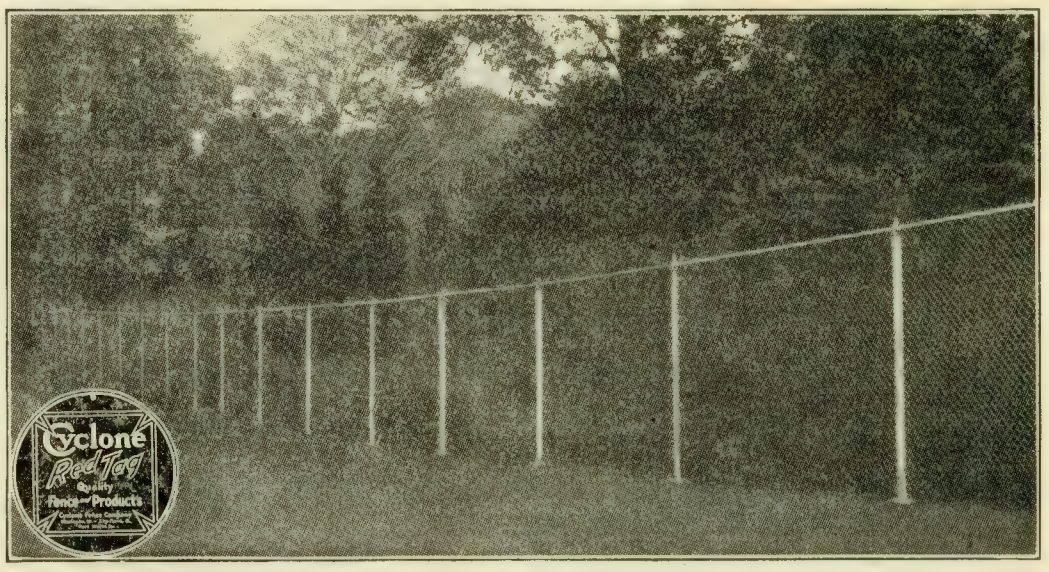
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Trenton Realty Co., Trenton, N. J. Cement block, 1 story, 48x83 feet, stone foundations, slag roof, concrete floors, electric lighting. Contract awarded to T. Bondarchuk, 213 Ferry avenue, Trenton, N. J.

Residence, 1704 South Clinton street, Trenton, N. J., $2,500. Architect, private plans. Owner, Mary Pflinger, 717 Monmouth street, Trenton, N. J. Cement block, 2½ stories, 14x40 feet, concrete foundations, slate roof, hardwood floors. Contract awarded to S. Herman, Trenton, N. J.

Residence (alt. and add.), 513-15 Linden street, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, Lodge of Carpenters and Joiners, Local No. 393, care of architect. Brick and steel, 2 stories, 32x20 feet, slag roof, hardwood floors, vapor heating, electric lighting, tile work, plumbing, general interior alterations, fire escapes. Contract awarded to J. P. Darlington, 515 Linden street, Camden, N. J.

Garages (28), Fox avenue, Philadelphia. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, J. L. Schmidt, 3038 North Twenty-fifth street, Philadelphia. Brick, 1 story, 12x17 feet each, slag roof, concrete floors, electric lighting, corrugated iron partitions and steel. Contract awarded to W. D. Speece, Glendora, N. J.

Miscellaneous Construction News

Group of Buildings, Massachusetts avenue, between Twentieth and Twenty-first streets, Washington, D. C. Architect, Snowden Ashford, Municipal Architect, District of Columbia, Washington, D. C. Owner, Gallinger Municipal Hospital, Louis Brownlow and Charles W. Lutz, Commissioners, District of Columbia, District Building, Washington, D. C. Brick, stucco, stone and steel, 2½ stories, Administration Building, 65x127 feet, wing 149x45 feet, Building for Mentally Defective Women, 112x52 feet, wing 26x44 feet, wing 101x30 feet, Building for Mentally Defective Men, 112x52 feet, wing 26x44 feet, wing 101x30 feet, stone and concrete foundations, slate, tile and slag roof, cement, maple and terrazzo floors, marble work, hollow tile, metal lath, elevators, rolled steel skylights, roof ventilators, metal weather strips, waterproofing, dampproofing, iron stairs and work. Bond. Owners taking bids due September 8th. Standard Const. Co., 1713 Sansom street, Philadelphia, are figuring. Deposit of $5.00 required.

Dispensary and Employment Office, Sparrows Point, Md. Architect, private plans. Owner, Bethlehem Steel Company, Sparrows Point, Md. Brick and steel, 1 story, 115x35 feet, stone foundations, slag roof, tile and concrete floors, steam heating, electric lighting, metal lath, metal ceilings. Owners taking bids due August 26th. Irwin & Leighton, 136 North Twelfth street, Philadelphia, are figuring.

Proposals

PICATINNY ARSENAL, DOVER, N. J.—Proposals for erection of two manufacturing buildings, viz.: one of steel and wooden frame and one of wooden frame, sidings on both to be of wooden sheathing and corrugated iron, material furnished by the United States, will be received until one o'clock P. M. September 1, 1920. For forms, drawings and specifications apply to Commanding Officer.

AS THE EDITOR SEES IT

(Continued from Page 748.)

Theatres seating fewer than 251 persons shall, in addition to these requirements, have two five-foot exits in front and two of the same size in the rear. Houses seating fewer than 501 and more than 250 shall have three five-foot exits in front and two six-foot exits in the rear. Theatres seating fewer than 1001 and more than 500 shall have three five-foot exits in front and twenty inches additional for each 100 or fraction of 100 persons over 500, two six-foot exits in the rear and two five-foot exits placed one on each side of the theatre.

SIMPLE CONCRETE PAVING IN RESIDENCE WORK

BY E. S. LARNED, CEMENT AND CONCRETE SPECIALIST

IN the development of residential property, concrete has come into such a general use and possesses so many advantages over the materials of construction which it has supplanted, that an argument in favor of its continued use has become unnecessary.

By reason of this extensive use of concrete, there has been a material change

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in the number of artisans engaged in the other classes of masonry work, and in many communities today it is hard to find the old time stone mason who is skilled in laying up cellar walls, and now, when foundation walls are laid up with rubble masonry or field stone, they are often inferior because of the lack of skill on the part of the workmen and, at best, the rubble wall was never so dense and impervious to moisture as a concrete wall.

Notwithstanding the many advantages that concrete possesses, it must be remembered that concrete is a manufactured article, and that all the materials entering into its makeup must be selected with discrimination, and then combined in proper proportions and mixed and placed with reasonable care. This is all very simple, requires little skill except on the part of the man directing operations, and the result is known within a very few days after the work is in place, so that poor materials or poor workmanship cannot be covered up or disguised.

It may be correctly said today that Portland cement is made under a standard specification, is remarkably uniform in quality and, except in color and some minor physical qualities, recognized only by the expert, there is little difference to be found between the various brands offered by manufacturers of established reputation.

Concrete Aggregates. Having selected a cement of standard reputation, we will now consider the importance of securing suitable sand and suitable stone or coarse aggregate, which go to make up the concrete mix.

Sand. Most communities afford sand differing widely in quality and suitabilty for this class of work, and as a general thing the sand used has more influence upon variations in the strength of the concrete than has the cement.

A suitable sand should, first, be clean and free from loam, clay and any impurities and contaminations of organic or chemical nature. It is commonly required that the sand shall be screened through a ¼ inch mesh sieve and that the particles shall be graduated in size from fine to coarse, with the coarse grains predominating; in other words, a clean, sharp, gritty siliceous sand. If only a fine sand of uniform grain is obtainable, but still clean and free of impurities, it is necessary to enrich the proportions by adding more cement than would be required in the case of the graduated coarser sand.

Coarse Aggregate. In work of small dimensions, such as sidewalks, curbs, steps, and driveways, the coarse aggregate should consist of either clean screened gravel, ranging in size from ¼ to 1½ inches or 2 inches in diameter (and it is important that the gravel stones be not coated with earth or clay) or have a clean hard crushed stone, having the same range in size and being free from dust, dirt or any foreign substance.

Mixing. Having determined the proportions, the materials should be carefully measured out and, if mixed by hand, the best results are obtained as follows: First provide a tight smooth mixing platform about 10 feet square, spread the measured quantity of sand on this to a depth of about three or four inches, spread the cement on top, uniformly and then with shovels or hoes turn this over thoroughly until the sand and cement are thoroughly intermixed dry, then add sufficient water to produce a paste or mortar of mushy consistency, then the measured quantity of stone or gravel is spread on the board to a depth of about 4 inches, sprinkled or wet with a hose, the mortar carefully spread over the surface of the stone and then all materials turned over, using a square pointed shovel, and shoveling to the surface of the board each time, so that the mortar is distributed through the voids of the stone, completely coating each particle. The concrete is then, without delay, placed in the forms, lightly worked with a spade or slice bar to secure smooth faces, in effect, puddling the concrete.

If the concrete is to be mixed by machine, it is common practice to put in, first the stone, then the cement and then the sand, adding the required amount of water to produce a concrete of medium soft consistency. It should remain in mixer at least one minute before discharging.

Forms. If smooth finished work is desired, it is necessary to use sound, straight lumber, planed at least on one side, and preferably tongued and grooved to prevent the leakage of cement grout. The form should be carefully braced to prevent bulging and lined up to conform to actual dimensions required. In the case of cellar walls, where building ordinances do not fix the dimensions, the thickness of wall for the ordinary dwelling house should not be less than ten inches.

Forms for sidewalks and driveways are very simple. It is customary to use lumber not less than two inches thick, the top edge to be carefully set to line and grade and securely held in place by stakes or iron pins, set on the outside of forms. If the sidewalk has no longitudional pitch for drainage (and this when obtainable should not be less than ¼ inch to the foot) the center of the walk should be either slightly crowned, or one edge set higher than the opposite edge, to provide the necessary drainage; the same conditions would apply to driveways.

Jointing. It is common practice to divide the sidewalk into blocks or squares not exceeding 36 square feet and in proprocess of construction, the concrete is cut along the joint lines entirely through from the surface to the bottom, (this is

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commonly done with a trowel working along a straight edge) and when the surface is finally finished by means of either a wood float or a steel trowel, the joint lines are finished with a tool called a jointer, leaving a straight beveled edge along each side of the joint, and the edge of the sidewalk is also given a beveled finish.

The modern specification for sidewalks requires not less than three inches of concrete in the base course, and one inch of mortar finish, which is applied immediately after the base course is laid, in order that the two mixtures may thoroughly **bond.**

In the case of *driveways* (not public roads) no special mortar finish is required, and the entire thickness of the concrete may be from 4 to 5 inches on the edge and with a crown of ¼ inch to the foot, having a mid depth of 5 to 6 inches in case of an 8 foot driveway, 5¼ to 6¼ inches in the case of a 10 foot driveway, and 6 to 7 inches in case of a 16 foot driveway, the foundation being finished to a flat surface. In order to finish the surface of a concrete roadway, it is customary to have a templet or strike board, the bottom edge being sawed to the crown of the road, and in length it should be about 2 feet longer than the width of the road; this is pushed forward, bearing firmly on the side forms, in a zig-zag motion, forcing the surplus concrete forward and leaving a relatively smooth surface; this is then commonly finished with a wood hand float which serves to completely embed the stones below the surface and leave a smooth finish. If it is desired to score this in any way, or mark it, it may be done by lightly brooming over the surface, drawing the broom in straight lines to produce a pleasing effect. In the case of a driveway of 8, 10, 12, or 16 feet width, there need be only a transverse joint about every 20 feet.

Joints for driveways may be made as suggested above for sidewalks, but perferably by the use of end forms or bulkheads, which may be made of thin boards sawed on the top surface to conform with the crown of the road, and when using these, the slabs are cast in alternate sections and when the concrete has hardened, the bulkhead may be withdrawn and the intermediate sections filled in. It is often the practice that some filler be used in these transverse joints in the nature of three-ply asphaltic roofing paper or a prepared mastic may be obtained, but either of these fillers can be omitted.

Basement or cellar floors. Concrete for this work in the ordinary dwelling house should be not less than 3 inches in depth and preferably four. The concrete is spread in a solid sheet without joints, and it is often customary to give the surface a slight pitch to some point of drainage, if no trouble from ground water is to be expected, in which case a strainer is set in the slab over a dry well, which may be about 2 feet square, and the same depth filled with broken stone or cinders. If ground water has to be reckoned with, or, in the spring months, when there might be danger of seepage, of course no drain or opening in the floor surface would be introduced and every care should be exercised to make the work water tight. Good workmanship will accomplish this, using a concrete in the proportion of about 1 cement, 2 sand and 3½ stone, making sure that the entire floor area is covered by one day's operation, so that there are no joint lines in the concrete. If footings have to be provided for the basement columns, the foundation can be laid to the grade of the under side of the concrete floor, in this manner avoiding joint lines between the floor slab and the concrete footing. It is also necessary to make a very careful joint connection between the floor slab and the wall, and in joining new concrete with old it must be remembered that the old concrete must be thoroughly cleaned and moistened, and then preferably given a light coat of rich mortar at the same time as the floor slab is cast--this to insure a good bond.

Foundation Conditions. In preparing the foundation the one thing to guard against is frost action, and this trouble is influenced largely by the nature of the soil and by moisture conditions. If sidewalks, curbs and driveways are built on a sandy or gravelly material, no special preparation of the foundation would be generally required but, if the ground be clay, hard-pan or ordinary sub-soil, it is customary to excavate 12 inches below the bottom of the sub-base concrete and lay a foundation consisting of broken stone, screened gravel, or soft coal cinders, thoroughly rammed.

Reinforcement. No reinforcement is required in the ordinary sidewalk or driveway construction, but if curbs are subject to the shock of wheeled vehicles, there should be two rods of about ½ inch diameter, placed in the concrete near the bottom of the curb and two of the same size about 2 inches below the top of the curb. If the curb is likely to suffer very rough usage, the edge on the road side can be protected by beveled steel plate which is fastened to the form and cast in the concrete at the time of construction.

Cellar floors require no reinforcement, and in the ordinary foundation walls, reinforcement can be omitted, but if there is any danger from earth or water pressure, the walls may be reinforced by the use of ¾ inch vertical bars, spaced about 12 inches apart and set in the forms about 2 inches from the inside face of the wall and extending from the bottom of the footing course to the top of the wall.

In the case of steps which are cast as beams, supported by the side buttresses, each step should have, about 1 inch above the bottom, two reinforcing bars of from ½ to ¾ inch diameter depending on the span.

Contractors handling even the simplest concrete work should be careful to select only good materials and supervise the workmanship. Low first cost is oftentimes the highest ultimate cost to the owner, and long after the owner has forgotten the price he paid for a job he remembers the man who did the work, and if it turned out to be poor, such remembrance is not a good thing for the contractor. The general appearance of a properly finished job more than compensates the owner for the slight additional expense and insures a reputation to the contractor that is worth many dollars.

—Builders' Journal.

ARTHUR BRISBANE, in a recent issue of the *Herald-Examiner,* offers the following suggestion on encouraging house construction:

"In great cities few houses are built and the housing problem grows worse, because:

"Building is done by contractors with money borrowed on mortgage. Rich men won't take 6 per cent mortgages and hand back half of the interest to the government in income taxes when they can buy city bonds and other tax free securities.

"How would this do as a makeshift remedy while waiting for city and state governments to build houses and sell them to the people at cost plus interest?

"Let the cities issue bonds and lend the proceeds to builders for mortgages on first-class property at a reasonable rate of interest. The mortgage would pay his interest to the city, and the city would pay nothing for national income tax since the United States does not tax city bonds or city income. Rich men that won't lend on ordinary mortgages would gladly buy the tax free city bonds.

"Wouldn't that help the situation? Beating the devil around the stump, it is true, but the people need houses."

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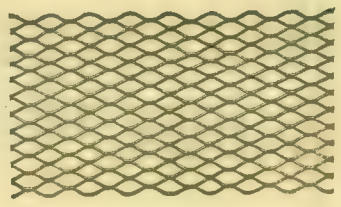
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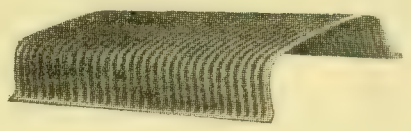
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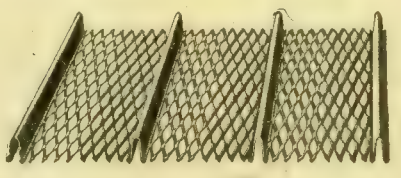
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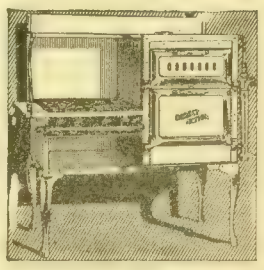


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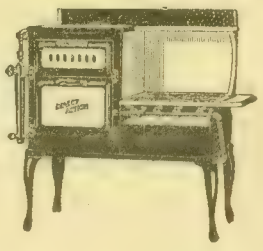
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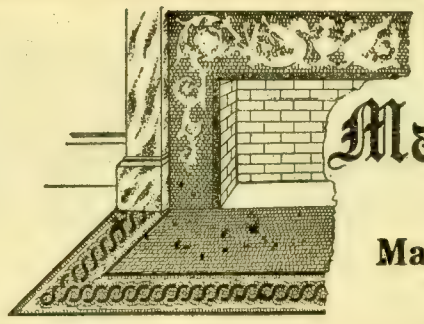
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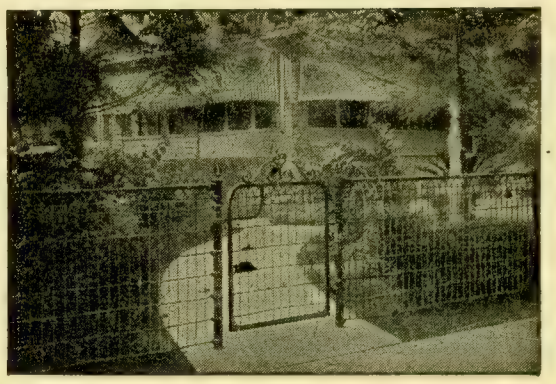
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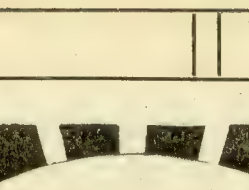
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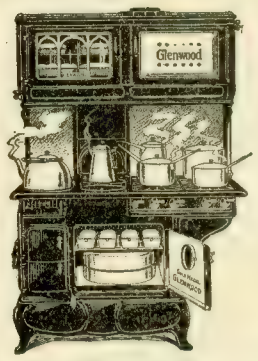
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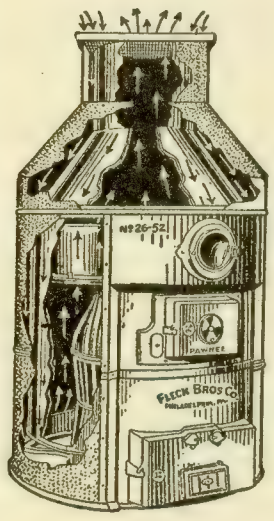


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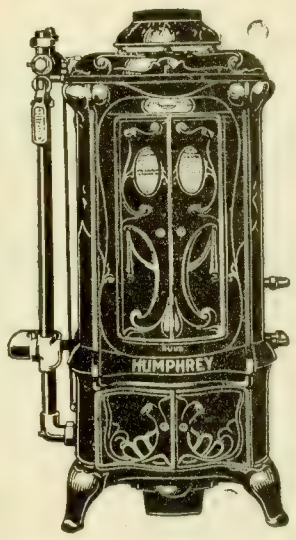
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 35

PHILADELPHIA
September 1, 1920

BUILDERS' GUIDE

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As The Editor Sees It

Abnormally high lumber prices were in part responsible for the arrest of the housebuilding movement within the last few months, according to a report submitted recently to the Senate by the Forest Service of the United States Department of Agriculture.

During the latter half of 1919 and the early months of 1920, says the report, lumber prices in the United States increased more sharply and to far higher points than were ever known before. In March, 1920, average mill prices had increased 300 per cent. and more over 1914. While the costs of production and distribution of lumber likewise increased, the rise in lumber prices was wholly disproportionate. "Present prices, though somewhat lower, are still excessive and yield profits unjustified by costs" says the report.

"A shortage in housing accommodations that is almost world-wide has brought home vividly the close relation of building to the comfort, health, and general welfare of the public. When for any reason construction falls below normal, overcrowding, high rents, lowered standards of living, and other evils follow."

Makes Construction Venturesome

Lumber prices, however, do not tell the whole story. Difficulty and delay in securing material and the impossibility of getting many of the grades desired tend to make the construction of a home at the present time a highly uncertain and speculative venture and take it out of the reach of large numbers of people.

According to figures of the United States Housing Corporation, the report states, normaly 30 per cent. of the number of buildings constructed are dwellings. In 1919, however, dwellings were only 15 per cent. Even before the war one million families in the United States desired houses. In 1919 only 70,000 houses were built, when 500,000 were required to meet the demand. In 1918 house construction was still less than in 1919.

An example of the increase in the cost of lumber, it is stated that the Pittsburgh home builder of 1913 paid $27 per thousand board feet for No. 1 common dimension framing. In 1920 he paid $72. Sheathing lumber No. 2 common yellow pine cost $26 in 1913 and $80 in 1920. Yellow pine finishing lumber increased from $42 to $140. If plain oak finish was used instead of Southern pine it cost $85 in 1913 and $260 in 1920. Yellow pine siding rose from $36 to $120; B and better flat grain flooring from $38 to $142; plain oak flooring cost, in 1913, $70 per thousand feet, and in 1920 $290; and quartered oak rose in the same period from $102 to $352.

A Few Striking Examples

The total costs of houses has increased proportionately, the report states. "A frame house built in Washington, D. C., in 1917 for $6,250 is now being duplicated from originial plans at a cost of $12,250. A St. Paul architect reports that a house was built for $4,240 in 1915, not including plumbing, heating, and wiring, and that a house built from the same plans in October, 1919, cost $7,724, while for identical plans in February, 1920, the cost rose to $11,820, or 179 per cent. over the 1915 price. The lumber and millwork costs in 1920 were $5,039, or $799 more than the total cost of the house in 1915. All of the items increased in 1920 over 1915, but with the exception of an insignificant item for a bond the percentage increases for lumber (304 per cent.) and millwork (222 per cent.) were the highest. On a six-room frame house built in Washington, D. C., for $4,771.60 in 1913 bids on identical plans in May, 1920, total $11,465.50.

"The lumber for a ready-cut, one-story, five-room house which was listed at $883 in 1915 had been raised to $3,272 in April, 1920, a total increase of 270 per cent.," says the report. "Another company dealing in ready-cut houses listed the material for a two-story seven-room house at $1,995 in 1915 and now lists it at $5,606.90, an increase of 181 per cent."

Can Not Afford To Pay Prices

Some kind of industrial construction can go forward regardless of uncertainties and cost, but ordinary homebuilders cannot afford to pay the lumber prices which are now asked.

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This conditions of affairs is partly due, the report points out, to the depletion of the timber supply of the country. One after another the great softwood forests of New England, the Lake States, and the South have been attacked, and successfully diminished. For the last 20 years or more material from long-leaf pine from the South has held a dominant place in the market, but the end of the stand of Southern Yellow Pine is now in sight and within 10 years' time the South will produce no more lumber than it will need to satisfy its own demands. The only remaining large supply of softwood timber in the country is that of the the Pacific Coast and already this is being called upon to make up the deficit in the Eastern markets caused by the failure of forest regions closer at hand to supply adequate amounts.

It is pointed out by the report that there is enough land in the country not adapted for any other uses to produce an ample amount of timber for all the needs of the country, if it were stocked with trees. At the present time forest fires cause an immense damage each year and prevent young timber which is already on the land from making its best growth or from producing timber of good quality. The only way in which an extreme shortage of lumber with all its attendant evils and restrictions on development can be avoided, the report insists, is by the adoption of a well co-ordinate policy of timber growing which will combine the efforts of the Federal Government, the States, and private individuals, with emphasis laid first of all on stopping the destruction wrought by forest fires.

* * *

Although high lumber prices were in part responsible for the arrest of house building, the effect of increased freight rates on lumber prices will not be downward.

The contention of railroad workers and their leaders and perhaps of labor leaders in general, says the *Lumber Trade Journal,* that the public will not, or at least should not, have to pay the increased cost of freight in the long run is perfectly understandable. That is the correct politics of the business, from their point of self interest.

But we fail entirely to understand the same or similar comments recently coming from various other sources occasionally, if not frequently, such as railway officials or higher-ups, economists, editors or publicists, and even some government officials and a few bankers. Just how authoritatively the latter may be, except in the case of Government officials, it would not on the whole be easy to say, but their comments stand and get into the record.

You don't find the commercial agencies making any such loose statements or repeating such follies. Note Dun's' for example, which says "the rise in freight rates may retard the progress of deflation in some lines, but other elements are depressing prices further and further."

That means, if it means anything, that the rate increase does have a direct bearing on the price, and the comment is all the more striking because it is incidental, being thrown in and assumed inferentially as a matter of course in illustration of entirely another matter, that of price reaction speaking generally. Dun's assumption is perfectly logical and correct, and deflation of prices will be retarded by an exact equivalent of freight increases, and this is borne out by some of the more level-headed daily papers.

As one editor puts it, it doesn't make any difference whether a railroad president says it, a labor union "expert" says it, a superficial editor says it, or who says it, a declaration that the railway rates are scarcely distinguishable in the public's cost of living is false in mathematics and preposterous in economics. This is supplemented by the statement more forcible than polite, but thoroughly well deserved:

"On the census basis of five persons to the average American bread winner's family this means a bill to him of $375 a year. Anybody that thinks an incessant tax of more than a dollar a day isn't distinguishable in the expenditures of the average bread winner of a family isn't doing his thinking with his head; he is doing it with his mouth."

All possible comments to the contrary are illogical, without real economic basis and hence mere foolishness, or else talk for an ultimate purpose. Of course the general public is going to pay the rate advance.

We have heard it cited as an instance by a would-be sapient contributor to the papers that the increased cost of the freight on a pair of shoes from, say, Brockton, Mass., to San Francisco, would be much less than five cents a pair. But the writer is only begging the question, or rather thus virtually admits in the same breath that the public does pay, but puts the plea that the amount is so small, like unto the prisoner at the bar who swore he didn't steal the horse and if he did it was only a little colt anyway. And further, even on this point he generalizes from too few examples, which is a dangerous practice where correct conclusions are demanded. While it is not authoritative, we fancy the freight on a suit of clothes, a pair of shoes, and such other commodities like clothing are comparatively small. Of course, an advance, say of 25 per cent. is the same gross advance as a 25 per cent. advance on any other commodity, but, net, it would not be nearly so immediately obvious on the buyer's part as it would in the case of all bulk freights such as coal, iron, ore, grain, packing house products or lumber, which pay the big tonnage. And it is obviously the big or bulk tonnage, therefore, which will mostly "pay the freight," the increase. Because it is the big tonnage.

It is no news to lumber dealers that they will pay more. It has been rather with them a question of late if they should, if possible, stock up now, and

(Continued on Page 775.)

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Sales and Service Building, Broad and McFerran streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, 1 story, 142x82 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting, rolled steel sash, skylights, iron work. Bond. Architect has received bids.

Residence, Germantown, Philadelphia. Architect, private plans. Owner, Captain F. P. Todd, 420 East Walnut Lane, Germantown. Stone, 2½ stories, 29x51 feet, shingle roof, oak and pine floors, stone foundations, hot water heating, electric lighting, iron work. Owner has received bids.

Stores (3), Broad and Snyder avenue, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, William Freihofer, Tenth and Indiana avenue, Philadelphia. Brick, 1 story, 16x27 feet, slag roof, cement floors, gas steam heating, electric lighting, metal lath. Architect taking bids. J. Reilly & Son, Forest avenue, Mt. Airy, Philadelphia, are figuring.

Building (alts.), 1029 Market street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Frank & Sedar, on premises. Brick work, iron work, lumber, carpentry, metal lath, plastering, safety treads, plumbing, composition floors, electric work, extension to heating. Architects have received bids.

Building (alts.), 512 South Fifth street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, Albert M. Greenfield Co., 512 South Fifth street, Philadelphia. Interior alterations, plastering, metal lath, carpentry, mill work, composition floors, tile work, painting, plumbing, electric work, heating repairs. Architect has received bids.

Church (alts. and add.), Third and Snyder avenue, Philadelphia. Architects, Architects' Service Co., 10 South Eighteenth street, Philadelphia. Owner, Snyder Avenue Congregational Church, on premises. Plastering, cement floors, carpentry, mill work, pine floors, tin roof, tile work, iron work, plumbing, painting, glazing. Bond. Architects taking bids due as soon as possible. F. B. Davis & Son, 240 North Sixteenth street; Fred Quate, 1323 Snyder avenue; Albert Lashner, 1625 South Orkney street; John M. Yardley, 1716 Sansom street; Frank & Kaiser, 1517 South Sixth street, and Thomas C. Trafford, 1613 Sansom street, are figuring.

Building (alts. and add.), 1424 Walnut street, Philadelphia. Architect, Ralph E. White, Pennsylvania Building. Owner, John N. Nelson Co., 1424 Walnut street, Philadelphia. All plans recalled. Bids will not be taken.

Shirt Factory, Southeast Corner Fifty-eighth and Market streets, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Greenebaum Bros., Larkin Building, Philadelphia. Stone, brick and concrete, slag roof, cement and pine floors, elevators, rolled steel sash. Plans about completed. Architect will be ready for bids in two weeks.

Workshop and (2) Dwellings, Tinicum avenue and Island road, Philadelphia, $10,000. Architect, private plans. Owner, J. M. Kennedy, 406 South Van Pelt street, Philadelphia. Brick, 1 story, 40x140 feet, slag roof, cement floors, residences, brick, 2 stories, 15x30 feet, slag roof, pine floors, hot air heating. Owner will build.

Residences (2), A street, North of Courtland street, $9,000. Architect, private plans. Owners, A. C. Schoen, 7111 Rising Sun Lane, Philadelphia. Brick, 2 stories, 16x50 feet, hot air heating, electric lighting, pine floors. Owner will build.

Residence (alts. and add.), 6727 North Broad street, Philadelphia. Architect, private plans. Owner, J. J. Kelly Const. Co., 6718 Old York road, Philadelphia. Brick, 3 stories, 24x12 feet, slag roof, electric lighting. Owners will build.

Residences (2) (alts. and add.) to Fraternity House, 3425-27 Walnut street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Philadelphia Branch of United Synagogue of America, care of architects. Brick, 1 story, 16x36 feet, slag roof, composition, pine, cement and tile floors, steam heating, electric lighting, tile work, plumbing, ornamental iron work, steel reinforcing beams. Architects taking bids due September 9th. Lam Building Co., 1001 Wood street; Smith-Hardican Co., 1606 Cherry street; E. E. Hollenback, Inc., 1804 Brandywine street; Thomas C. Trafford, 1613 Sansom street; Ketcham & McQuade, 1029 Brown street; Golove & Lewis, Real Estate Trust Building, and Graham & Wells, 3649 Filbert street, are figuring.

Foundations for Central Library, Nineteenth to Twentieth, on Parkway, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, care of Librarian John Ashhurst, Thirteenth and Locust streets. Concrete, 344x232 feet. Owners, care of Board of Trustees, taking bids due September 14th at noon, in Room 202, City Hall, Philadelphia. Deposit of $15.00 required. Cramp & Co., Denckla Building; F. W. Mark Cont. Co., Commercial Trust Building; Penn Eng. & Const. Co., 3840 Spring Garden street; Edw. Fay & Son, 25 Mole street; Irwin & Leighton, 126 North Twelfth street; Standard Const. Co., 1713 Sansom street, Philadelphia, and John Gill & Son, Cleveland, O., are figuring.

Store and Warehouse, 704-06-08 South Sixth street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owners, Coroneos Bros., on premises. Brick, slow burning construction, 4 stories, slag roof, cement and pine floors, waterproofing (electric lighting, heating and elevator reserved). Architect taking revised bids due September 3rd. William Uhler Sons, 1841 South Broad street; Robbins Cont. Co., 1137 North Front street, and Jacob Bender, 1817 South Fourth street, are figuring.

Mill Building, Twenty-first and Lippincott streets, Philadelphia. Architect, Stanford B. Lewis, Dexter Building, Philadelphia. Owners, Glen Knitting Mill Co., Second and Westmoreland streets, Philadelphia. Architect taking sub-bids due September 2nd on steam heating, electric lighting, plumbing, sprinkler system, electric elevator, power plant and equipment.

Residence, Stores and Apartments (alts.), Northeast Corner Forty-ninth and Florence avenue, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, M. Kremer, care of architects. Brick, 3 stories, 2 story add., 28x35 feet, slag roof, pine floors, enclosed porch, new partitions, hot water heating, electric lighting, hollow

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metal skylights, stair tower. Architects will be ready for bids in a few days.

Building, Tioga and Thompson streets, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Federal Container Co., care of architect. Brick, 1 story, 311x198 feet, slag roof, cement and tile floors, metal lath, stone foundations, rolled steel sash, skylights, fire doors, Bond ornamenal iron work, dampproofing (heating and light reserved). Architect has received bids.

Varnish Building, Grove and Wharton streets, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Rinald Bros., 1142 Hancock street, Philadelphia. Brick and steel, 2 stories, 46x50 feet, slag roof, pine floors, roof ventilators, iron work, rolled steel doors, hollow metal skylights, stone foundations (elevator, heating, plumbing and electric work reserved). Architect taking bids, due September 3rd. H. E. Grau Co., 1707 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine street; Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, and H. P. Friend, Inc., Norristown, Pa., are figuring.

Club House, Roxborough, Philadelphia. Architect, J. S. Fuller, 1537 Chestnut street, Philadelphia. Field office, 6937 Ridge avenue, Philadelphia. Owners, Green Valley Country Club, Roxborough, Philadelphia. Holmesburg granite, two-story addition, 50x80 feet, trussed prepared roof, hardwood and maple floors, mineral wool, dumbwaiter, plastering, electric work and fixtures, tile work, steam heat, mill work, gravel walks. Architect will take bids at field office, 6937 Ridge avenue, Philadelphia, due September 9th, at 10 A. M. F. E. Wallace, 1220 Chancellor street; F. B. Davis & Son, 240 North Sixteenth street; B. Bornstein, 1512 North Franklin street; C. M. Swartley, 6835 Ridge avenue, and Wm. H. Eddleman & Son, 453 Green Lane, are figuring.

Hospital, Fifth and Fairmount avenue, Philadelphia. Architect, Wm. Copeland Furber, 212 West Washington Square, Philadelphia. Owners, Roosevelt Hospital, care of Dr. Franklin Brady, Fifth and Fairmount avenue, Philadelphia. Fireproof construction, 5 stories. Preliminary sketches drawn.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Manufacturing Building (alts.), 56 North Third street, Philadelphia, $10,000. Architect, James C. S. Fernald, Fifty-fifth and Wyalusing avenue, Philadelphia. Owner, I. Kopplеman, 717 South Cecil street, Philadelphia. Fire tower, plastering, carpentry, mill work, iron work, steel work, fire escape. Contract awarded to H. C. Zingraf, Jr., 2527 North Seventh street, Philadelphia.

Residence and Store (alts.), 1713 North Fifty-second street, Philadelphia, $2,600. Architect, private plans. Owner, N. Braunstein, on premises. General interior alterations, electric lighting, flush bulk, hardwood and pine floors. Contract awarded to Morris Seliznom, 129 Roseberry street, Philadelphia.

Store and Residences (alts. and add.), 2119 Columbia avenue, $3,000. Architect, private plans. Owner, Adolph Blitz, 2148 Ridge avenue, Philadelphia. Brick, 1 story, 14x10 feet, slag roof, electric lighting, flush bulk. Contract awarded to Joseph Glashofer, 592 Morris street, Philadelphia.

Power Building, Stenton avenue and Rockland street, Philadelphia, $25,000. Architects, Stewart A. Jellett Co., Real Estate Trust Building, Philadelphia. Owners, Ferguson Carpet Co., on premises. Brick, concrete and steel, 1 story, 74x40 feet, slag roof, cement floors, roof ventilators, rolled steel sash, stone foundations. Bond. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Boiler House, Baynton street and Chelten avenue, Philadelphia. Architect, Frank V. Nickels, 4400 Main street, Manayunk, Philadelphia. Owner, C. E. Dearnley, Manayunk, Philadelphia. Reinforced concrete, 1 story, 33x90 feet, slag roof, cement floors, electric lighting, brick stack, 45 feet high, 10 feet base, 5 feet top. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building, on a cost plus basis.

Storage Shed (fire repairs), Southwest Corner Thirty-seventh and Tasker streets, $6,000. Architect, private plans. Owners, The Sa-

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City National Bank Building, Shreveport, La. Architects, Languinet & Statts, Fort Worth, Texas; Associate Architect, E. F. Neild, Shreveport, La.; Gen'l Cont., Central Contracting Co., Houston, Texas; Roofers, H. H. Bain Sheet Metal Works, Shreveport, La.



Scottish Rite Cathedral, Shreveport, La. Arch., E. F. Neild, Shreveport, La.; Gen'l Cont., Stewart-McGhee, Little Rock, Arkansas; Roofers, H. H. Bain Sheet Metal Works, Shreveport, La.



The Highland Sanitarium and Addition. Arch., C. W. King, Shreveport, La.; Gen'l Cont., Stewart-McGhee, Little Rock, Ark.; Roofers, H. H. Bain Sheet Metal Works, Shreveport, La.



Barrett Street School, Shreveport, La. Arch., Neild & Olshver, Shreveport, La.; Gen'l Cont., W. H. Werner, Shrevepport, La.; Roofers, J. W. Wilkinson, Shreveport, La.

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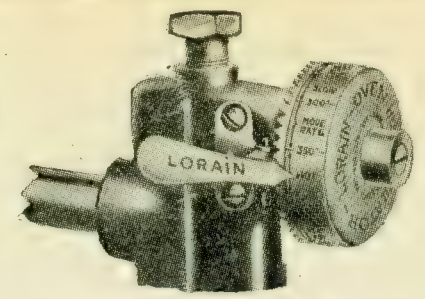
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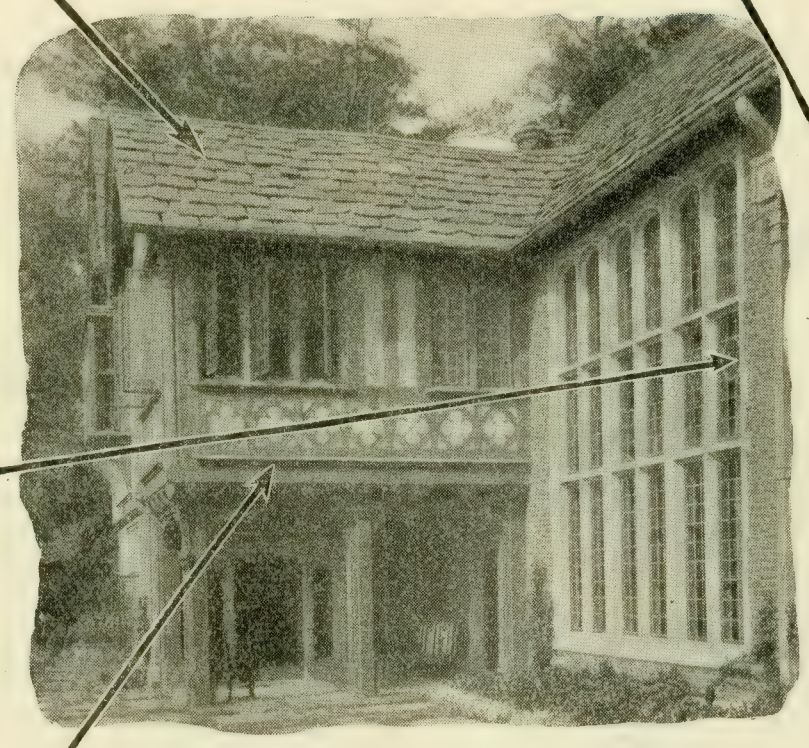
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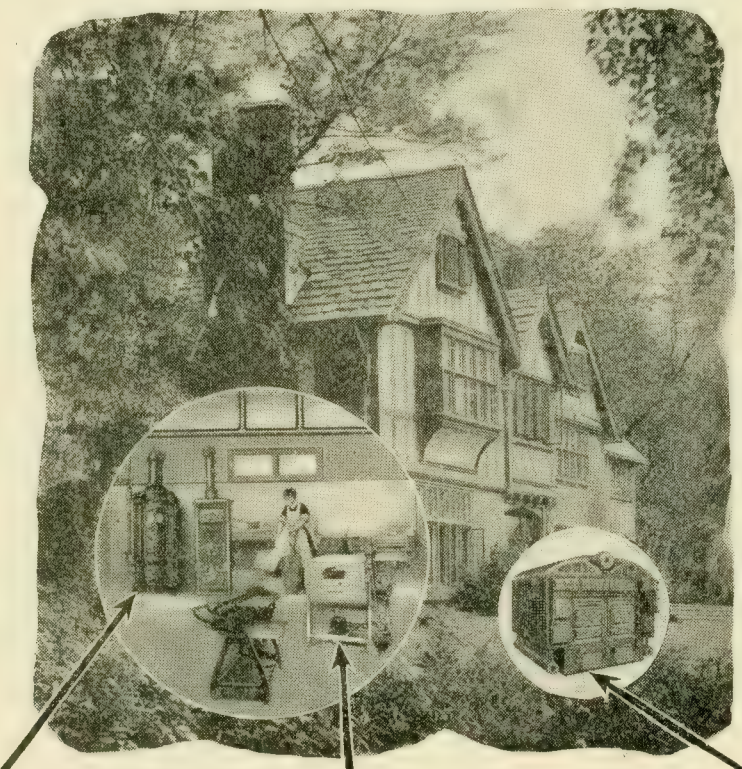


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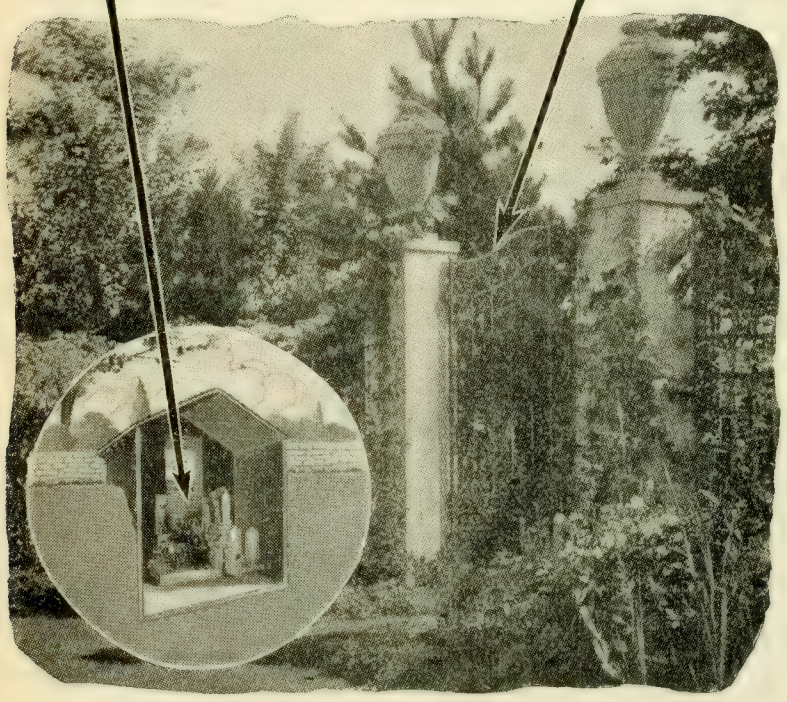
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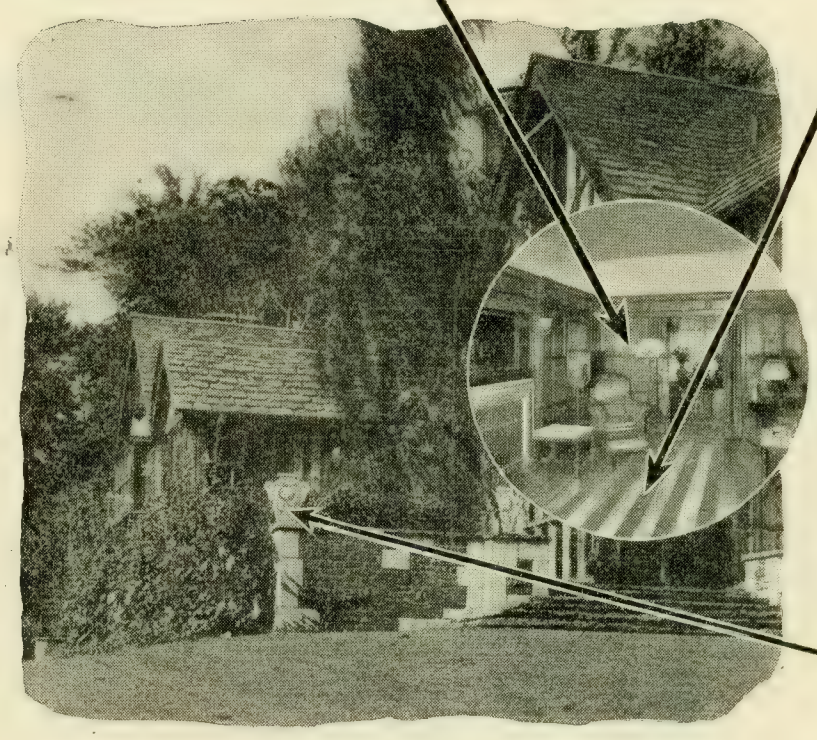
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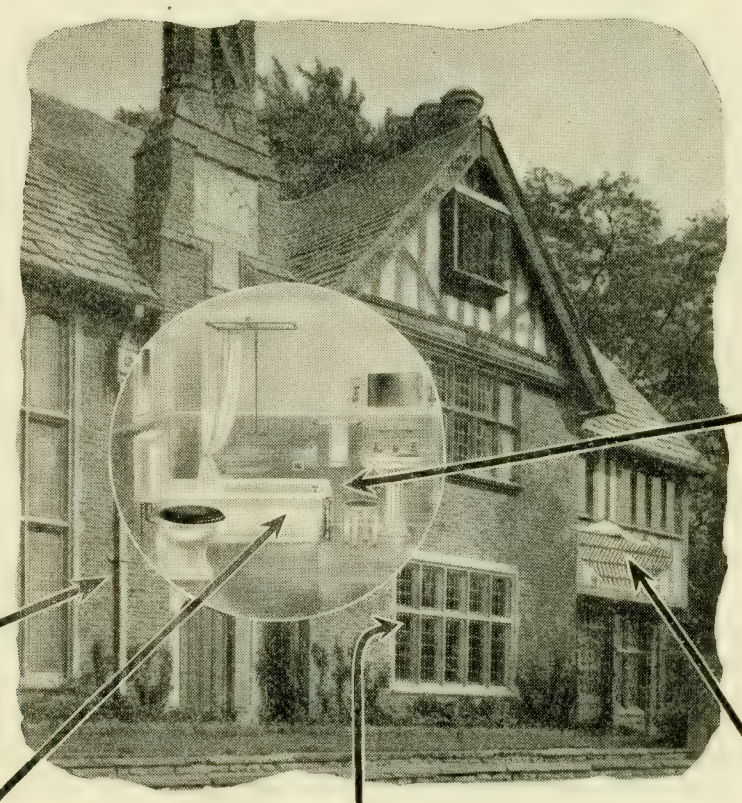


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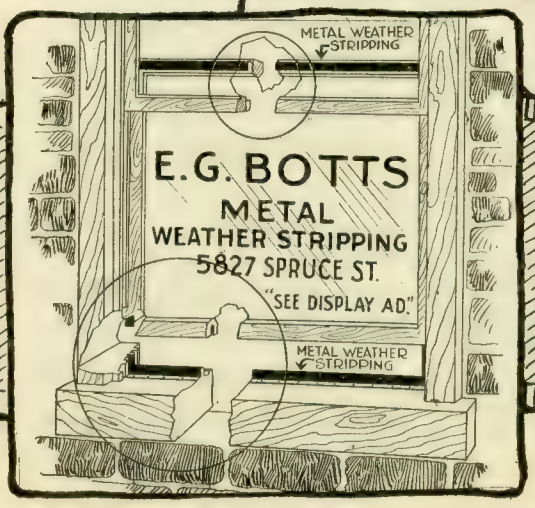


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vannah Co., on premises. Frame, 1 story, 30x163 feet, ready roofing, pine floors, loading platform, 140x12 feet. Contract awarded to John Schnable Co., Denckla Building, Philadelphia.

Store, 1644 Glenwood avenue, Philadelphia, $3,000. Architect, private plans. Owner, M. Schamell, on premises. Brick, 1 story, 12x25 feet, tile roof, hot water heating, pine floors, iron work (lighting reserved). Contract awarded to Warren Bros., 1113 Cherry street, Philadelphia.

Building (alts.), 1329 Vine street, Philadelphia, $6,500. Architect, private plans. Owner, B. Amsterdam, on premises. General remodeling and interior alterations to building. Contract awarded to S. Yellin, 3125 Montgomery avenue, Philadelphia.

Workshop, Belfield avenue, South of Penn street, Philadelphia, $5,000. Architect, private plans. Owners, National Umbrella Frame Co., Thirtieth and Thompson streets. Brick, 1 story, 60x57½ feet, slag roof, steam heating, electric lighting. Contract awarded to George W. Whitemar, 403 East Penn street, Germantown, Philadelphia.

Store and Dwelling (alts. and add.), Poplar street and Ridge avenue, $4,800. Architect, private plans. Owner, Max Kantsky, Seventeenth and Ridge avenue, Philadelphia. Brick, 3 story add., 12x19 feet, slag roof, electric lighting, new front. Contract awarded to L. Rubin, 421 Jackson street, Philadelphia.

Manufacturing Building, Southeast Corner Rising Sun avenue and Adams road, Philadelphia, $370,000. Architect, private plans. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue. Reinforced concrete and brick, 3 stories, 122x240½ feet and 58x10 feet, slag roof, steam heating, electric lighting, cement floors, rolled steel sash, iron work. Contract awarded to William Steele & Sons, 1600 Arch street, Philadelphia.

Garage, 1830 Frankford avenue, Philadelphia, $4,000. Architect, private plans. Owner, Willard F. Kerr, on premises. Brick and steel, 1 story, 20x60 feet, slag roof, cement floors (heating and electric lighting reserved). Contract awarded to Robert Beatty & Bro., 2321 East Fletcher street, Philadelphia.

Office (add.), Twentieth and Indiana avenue, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, William Friehofer Baking Co., on premises. Brick and steel, 1 story, 70x40 feet, slag roof, maple and terrazzo floors (heating and electric lighting reserved), stone foundations, iron work. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets, who are taking sub-bids.

Store and Warehouse (fire repairs), 255-57 South Third street, $2,800. Architect, private plans. Owner, M. Goldman, 220 South Second street, Philadelphia. General repairs. Contract awarded to Shechtman Bros., 1734 North Seventh street, Philadelphia.

Green House, Fitler road and Delaware avenue, Philadelphia, $10,000. Architect, private plans. Owner, Mrs. Charles Howell, on premises. Concrete, iron and glass, 1 story, 87x25 feet and 25x25 feet, glass roof, hot water heating, concrete floors. Conract awarded to Lord & Burnham Co., Land Title Building, Philadelphia.

Service Station and Garage, 212-222 North Juniper street, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, George Shields, care of Lyric Garage, 231 North Juniper street, Philadelphia. Brick, steel, slow burning construction, 2 stories, 33x120 feet an d60x66 feet, slag roof, cement floors, elevators, fire doors, hollow metal skylights, stone foundations (heating, plumbing, electric work and elevator reserved). Contract awarded to D. Hen-

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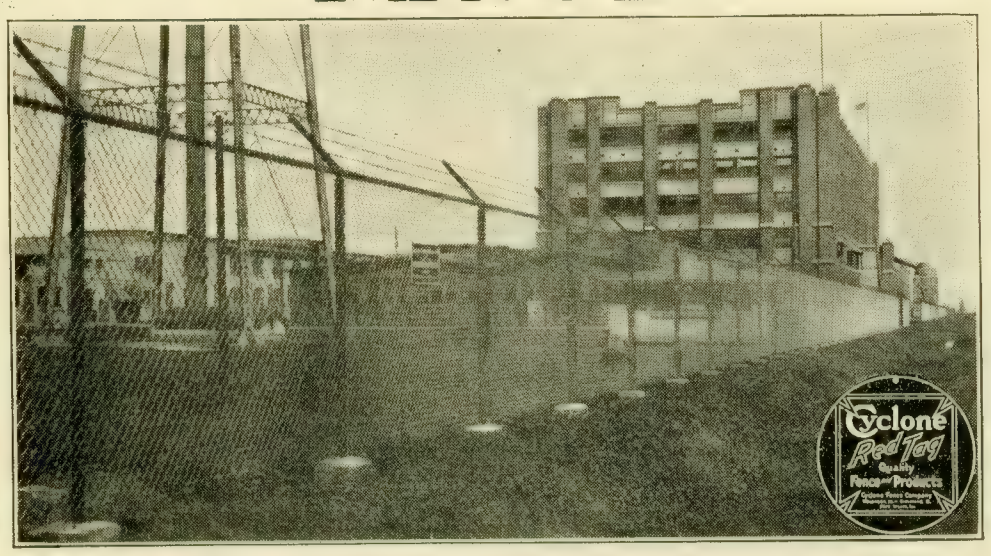
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wood, 717 South Sixty-third street, Philadelphia.

Dye House, Northeast Corner Trenton avenue and Cambria street, Philadelphia, $13,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Architect, James J. Diamond, on premises. Brick, 1 story, 42x60 feet, slag roof, cement and pine floors, electric lighting, steam heating. Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

Store and Dwelling, 721-23 West Girard avenue, Philadelphia, $9,600. Architect, private plans. Owner, Theresa E. Rumel, on premises. Brick walls, electric lighting, general interior renovation. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

Building (fire repairs), Southeast Corner Fourth and Cherry streets, $3,000. Architect, private plans. Owners, M. Zifferblatt, 260 North Fourth street, Philadelphia. Carpentry, mill work, electric work, plumbing, plastering, new wood tank, tin and slate roof, slag roofing. Contract awarded to Clayton Lolland, southwest corner Water and Race streets.

Factory Building, Twenty-ninth and Hunting Park avenue, Philadelphia. Architect, Wm. Steele & Sons Co., Inc., 1600 Parkway, Philadelphia. Owners, Reyburn Manufacturing Co., Twenty-third and Allegheny avenue, Philadelphia. Reinforced concrete and steel, 4 stories, size undetermined, slag roof, stone foundations, steam heat, electric lighting, rolled steel sash, cement floors, iron work. Contract awarded to Wm. Steele & Sons, Inc., 1600 Parkway, who will be ready for sub-bids in one month.

Residence (alts.), 1229 South Fifty-seventh street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Charles Kores, on premises. Carpentry, mill work, plumbing, electric lighting, hot water heating, painting and glazing. Contract awarded to Kaplan Greenstein Co., 717 Walnut street, Philadelphia.

Store and Residence (alts. and add.), 1532 North Broad street, Philadelphia, $8,000. Architect, I. W. Levin, 536 Ritner street, Philadelphia. Owner, Myer Magil, 20 North Sixth street, Philadelphia. Brick, 1 story, 16x20 feet, slag roof, electric lighting, flush bulk. Contract awarded to Fred Quate, 1323 Snyder avenue, Philadelphia.

Residence (alts.), 3635 North Fifteenth st., Philadelphia, $3,000. Architect, private plans. Owner, Mary H. Wiehler, on premises. General alterations, electric lighting, hot water heating, hardwood floors. Contract awarded to Edw. A. Fricke, 2839 Opal street, Philadelphia.

Store and Dwelling (alts.), 2027 Ridge avenue, Philadelphia, $2,500. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, A. Glaberson, 2075 Ridge avenue, Philadelphia. Interior alterations, electric lighting, new front. Contract awarded to John E. Spitz, 243 North Eleventh street, Philadelphia.

Pennsylvania Construction News

Warehouse, Reading, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owners, Carpenter Steel Co., Reading, Pa. Brick, 1 story, 25x108 feet, stone foundations, composition roof, concrete floors, electric light, metal lath, ornamental iron work, hollow metal sash and skylights, waterproofing, dampproofing. Architect aking bids, due September 2nd. Beard Const. Co.. Charles Schlegel, D. Hunter and P. D. Kaufman, Reading, Pa., are figuring.

Warehouse, No. 26, Reading, Pa. Architects,

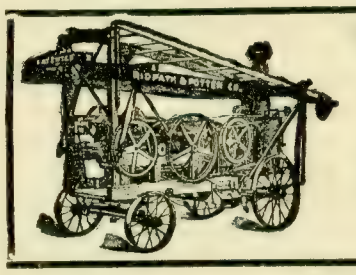


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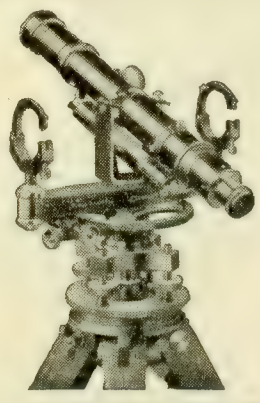


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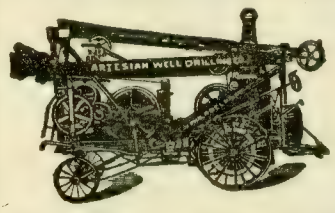
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Muhlenberg Bros., 511 Penn street, Reading, Pa. Owners, Carpenter Steel Co., Reading, Pa. Brick, 1 story, 30x100 feet, composition roof, electric light, metal lath. Architect taking bids due September 2nd. Beard Const. Co., Charles Schlegel, D. Hunter and P. D. Kaufman, Reading, Pa., are figuring.

Bakery (add.), Reading, Pa. Architect, A. F. Smith, Sixth and Court streets, Reading, Pa. Owner, Kolb Baking Co., on premises. Brick, 1 story, 40x80 feet, stone foundations, steel roof, cement floors, electric light. Architect has received bids.

High School, Allentown, Pa., $3,000,000. Architect, not yet selected. Owner, Allentown School Board, Allentown, Pa. Too early $101,000.

Garage and (16) Apartments (alts.), 115 Church street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, F. Seibel, 115 Fifth street, Reading, Pa. Brick, 3 stories, composition roof, reinforced concrete floors, steam heat, electric light, tile work, general interior alterations. Plans in progress.

Machine Shop, Hyde Park, Reading, Pa. Architect, G. C. Freeman, Fifth and Court streets, Reading, Pa. Owner, W. A. Wilman, Berks County Trust Building, Reading, Pa. Brick. Plans near completion.

Y. M. C. A., Eighth and Washington streets, Reading, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owners, Y. M. C. A., care of architect. Brick, stone, steel, 3 stories, 115x120 feet, stone foundations, composition roof and floors, electric light, tile and marble work, swimming pool, concrete floor, rolled steel skylights, roof ventilators, fireproof doors, structural steel work, waterproofing. Architect taking bids due September 3rd. D. Hunter, Charles Schlegel, Sharp Const. Co. and Beard Const. Co., all of Reading, Pa., are figuring.

Garage and Show Room, Penn street, Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owner, Hettinger Bros., Penn street, Reading, Pa. Brick, 1 and 2 stories, 80x22 feet and 100x22 feet, stone foundations, composition roof, composition and cement floors, electric lighting. Owner will sub-let.

Building (alts. and add.), 515 Welsh street, Chester, Pa. Architect, Robert G. Holland, 1603 Real Estate Trust Building, Philadelphia. Owners, Geary & Rankin, 12-14 East Fifth street, Chester, Pa. Brick work, marble and tile work, carpentry, mill work, pine floors, iron and steel, fire escapes, electric lighting, hardware, plastering. Owner is taking bids. John R. Wiggins Co., Otis Building, Philadelphia, is figuring.

School, Swedeland, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, School Board, care of G. Hurdle, president, Port Kennedy, Pa. Brick, 1 or 2 stories (8 class rooms), details undecided. Preliminary sketches being drawn.

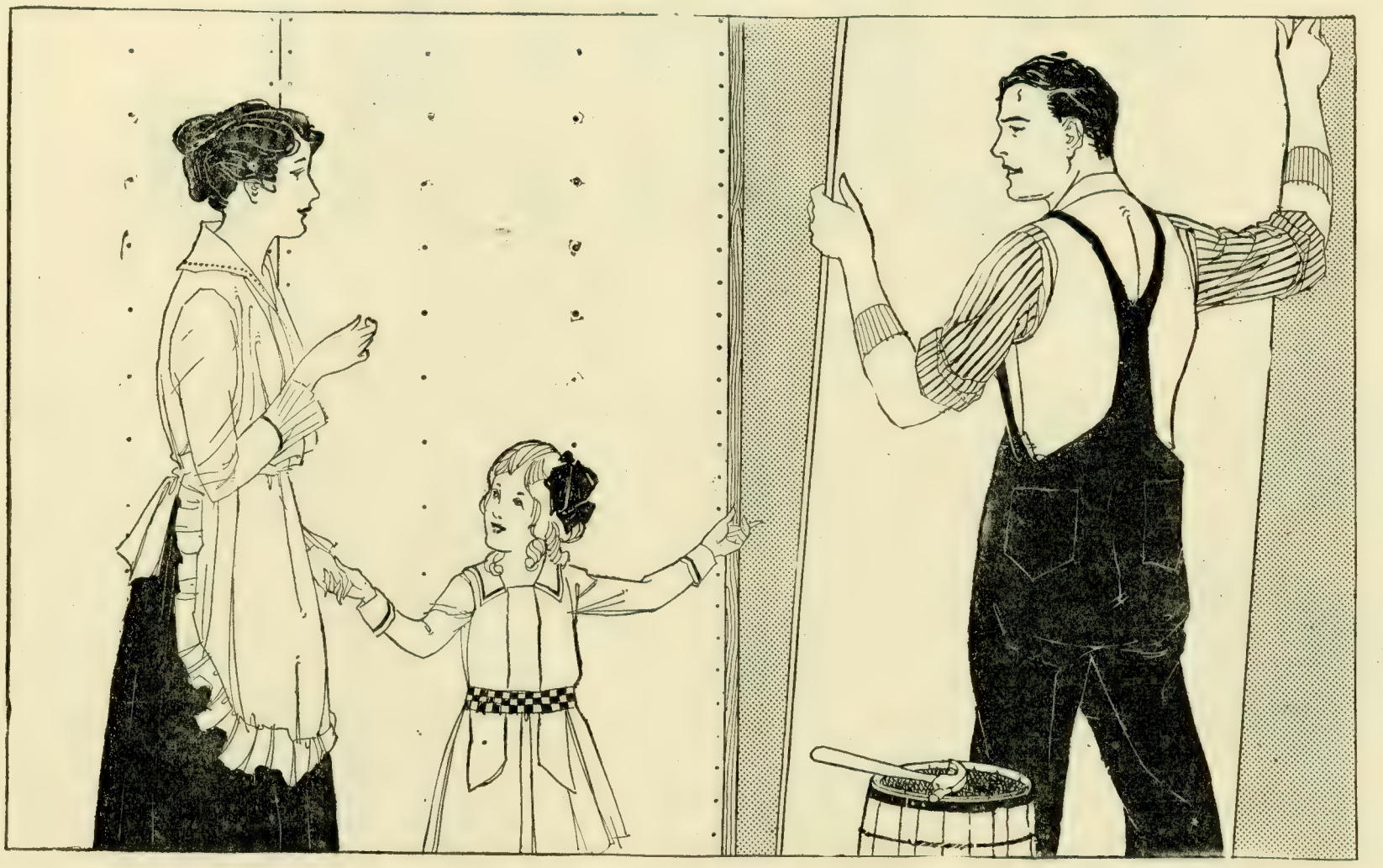
Horse and Cow Stable, Ardmore, Pa. Architect, Robert Cridland, Bailey Building, Philadelphia. Owner, J. H. Carstairs, Bellevue Court Building, Philadelphia. Stone and frame, 3 stories, 27x37 feet, shingle roof, cement, cork and pine floors, electric lighting, stone foundations, roof ventilators. Architect has received bids.

Cintering Plant, Birdsboro, Pa. Architect, F. H. Brooks, Washington, D. C. Owners, E. & G. Brooke Iron Co., Birdsboro, Pa. Structural steel, 3 or 4 story, asbestos covered corrugated iron roof, concrete foundations, concrete work. Architect has received bids.

Cow Barn, Spring City, Chester County, Pa. Architect, Philip H. Johnson, Presser Building, Philadelphia. Owner, Board of Commissioners of Public Grounds and Buildings, Capitol Building, Harrisburg, Pa. Concrete, hollow tile and steel, 2 stories, 233x37 feet, wing 108x30 feet, slag and asbestos shingle roof, cement and wood block floors, hollow tile, metal lath, elevators, roof ventilators, damp-

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proofing, iron work, rolled steel sash, electric light, stone foundations. Lowest bid submitted by Frank H. Kaiser, Pottstown, Pa., $101,000. All bids rejected.

School, Manheim Township, Lancaster County, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Manheim Township School Board, care of Elmer Espenshade, 1024 North Duke street, Lancaster, Pa. Brick, 1 story, 77x142½ feet, concrete foundations, slag roof, hardwood floors, hot air heating, electric lighting, tile and marble work, hollow metal skylights, roof ventilators. Architect taking revised bids due September 11th. S. L. Snyder, Denver, Pa.; L. Wilson and D. S. Warfel, Lancaster, Pa., are figuring.

Hospital, Elizabethtown, Pa. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner, Philadelphia Free Masons' Memorial Hospital, Elizabethtown, Pa. Architect is taking bids on stone foundations. Bids on superstructure will be taken in spring of 1921.

Residence, No. 2, Elkins Park, Pa. Architect, J. Harry Parker, 129 South Fifth street, Philadelphia. Owner, Russell Spruance, 135 South Second street, Philadelphia. Hollow tile and stucco, 2½ stories, 30x45 feet, slate roof, steam heat, electric lighting, tile work, hardwood floors. Architect will be ready for bids in one week.

Stable (alts.), Cedar road, near Elkins Park, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, W. A. Longshore, care of architect. General alterations. Plans in progress.

Building (alts. and add.), Coatesville, Pa. Architects, Shattuck & Layer, 19 South La Salle street, Chicago, Ill. Owners, Y. M. C. A., Coatesville, Pa. Brick, steel, terra cotta, 4 stories, 146x35 feet, composition roof, tile, maple and pine floors, metal lath, roof ventilators, waterproofing, ornamental iron work, fire escapes, hollow metal doors and skylights and sash, marble work, electric lighting, steam heating, stone foundations. Owners will build and are taking sub-bids on all lines.

Hotel, Bethlehem, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Bethlehem Hotel Realty Co., care of W. J. Heller, president, Bethlehem, Pa. Stone, concrete and steel, 10 stories, 120x120 feet, slag roof, hardwood, pine and tile floors, marble and terrazzo work, elevators, stone foundations, fire doors. Plans in progress.

Residence, Lancaster, Pa., $60,000. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Smith, Lancaster, Pa. Architect selected. Too early for details.

Bank, Dauphin, Pa. Architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owners, Dauphin National Bank, care of D. E. Seiler, Dauphin, Pa. Brick, 1 story. Too early for details.

Residence, Lancaster, Pa. Architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owner, Mrs. S. E. Bowers, 104 West Chestnut street, Lancaster. Brick and stucco, 2½ stories, 24x36 feet, slate roof, hardwood floors, electric lighting, tile work. Plans in progress.

Memorial Bridge, Harrisburg, Pa. Architect, A. W. Brunner, 101 Park avenue, New York City. Engineer, J. E. Greiner, Fidelity Building, Baltimore, Md. Owners, State of Pennsylvania, Board of Commissioners of Public Grounds and Buildings, I. W. Mitchell, secretary, and T. W. Templeton, superintendent, Capitol Building, Harrisburg, Pa. Granite, stone and concrete, concrete foundations, 80 feet wide, 2,687 feet long, waterproofing, iron work, electric lighting. Owners taking bids, due September 28th. Plans will be ready for general contractors September 1st.

Pennsylvania Contracts Awarded

Store (alts.), Tamaqua, Pa. Architect, Benj. Rush Stevens, 1737 Filbert street, Philadelphia. Owner, S. J. S. Wenzel, Tamaqua, Pa. New slag roof, composition floors, tile work, skylights, flush bulks. Contract awarded to A. L. Graff, Tamaqua, Pa.

Crusher House Foundations and Storage Bin, Tullytown, Pa. Engineer, Otto Fisher, Beach and Berks streets, Philadelphia. Owners, Penn Valley Plant of Hainesport Mining & Trans. Co., Tullytown, Pa. Reinforced concrete, 72x34 feet, 40 feet high. Contract awarded to A. L. Carhart, Penfield Building, Philadelphia.

Garage, Grayling avenue, Narberth, Pa. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owner, H. W. Browmund, on premises. Hollow tile and stucco, 1 story, 21x22 feet, slate roof, cement floors, electric lighting. Contract awarded to E. A. Wheeler, 122½ North Sixteenth street, Philadelphia.

Residence, Swarthmore, Pa. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Walter J. Smith, 1215 South Fifty-eighth street, Philadelphia. Stone, hollow tile and stucco, 2 stories, 38½x56 feet, shingle roof, hardwood floors, stone foundations, hot air heating, tile and marble work, electric lighting. Contract awarded to Nicho-

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las Altarelli, 537 Carpenter street, Philadelphia.

Houses (6 pairs), Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, House Building Association, care of Mr. Soumner Brown, Woolworth Building, Lancaster, Pa. Brick, hollow tile, stucco, 2 stories, 16x44 feet, concrete foundations, slag roof, pine floors, hot air heating, electric lighting. Contract awarded to Ray Clark, Lancaster, Pa.

Hospital (add.), Nurses' Home and Service Building, Lancaster, $250,000. Architect, M. R. Evans, 10½ Orange street, Lancaster, Pa. Owner, Lancaster General Hospital, care of M. Brightener, Lancaster, Pa. Brick, 2 stories and basement, and 4 stories, 55x40 feet, 40x80 feet and 50x84 feet, stone foundations, slate and slag roof, hardwood and tile floors, electric lighting, tile, marble and terrazzo work, rolled steel skylights, elevators, roof ventilators, metal weather strips, fire doors. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster, Pa.

Residences (3), Wynnefield, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Morris Ellis, 627 Market street, Philadelphia. Stone, 2½ stories, (1) 51x50 feet and (2) 38x27 feet, slate roof, oak and pine floors, stone foundations, hot water heating, electric lighting, tile work, iron work. Contract awarded to Essick Const. Co., 1345 Arch street, who are taking subbids.

New Jersey Construction News

School Building, Collingswood, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Board of Education, care of William F. Ballinger, District Clerk, Collingswood, N. J. Brick, 1½ stories, 86x25 feet, wings (2) 36x25 feet, slag and shingle roofs, cement, tile and pine floors, metal lath, dampproofing, iron work, fire doors, marble work, steam heating, electric lighting, stone foundations. Bond. Architects taking bids due September 14th. Wills-Ludwick Co., 1708 Sansom street; Frank G. Stewart, 1619 Sansom street; Standard Const. Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street, Philadelphia; J. T. Cox, 54 Nassau street, New York City; George Bachman, 19 North Thirtieth street, Camden, N. J., and George W. Shaner, Palmyra, N. J., are figuring.

Club House, Linwood, N. J., $125,000. Architects, McLanahan & Benkert, Bellevue Court Building, Philadelphia. Owners, Linwood Country Club, Linwood, N. J. Hollow tile or brick and plaster, 2 and 3 stories, 60x100 feet, oak floors, steam heating, electric lighting, marble work, swimming pool. Architects will be ready for bids in two weeks.

Lean to, Delaware avenue and Pearl street, Camden, N. J. Architect, private plans. Owners, Concrete Steel Co., 42 Broadway, New York City. Timber, corrugated iron roof, 25 feet high, 26 feet wide, 80 feet long. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Miscellaneous Construction News

Church, Albany, Mo. Architect, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, Presbyterian Church, Albany, Mo. Brick, 1½ stories, 30x50 feet, slate roof, pine floors, stone foundations, iron work (heating, electric work and plumbing reserved). Plans in progress. Will be ready for bids in two weeks.

Theatre, Store and Apartments, 1317 Pennsylvania avenue, Baltimore, Md. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Douglas Amusement Co., Baltimore, Md. Brick, steel, stone and reinforced concrete, 4 stories, asbestos and asphalt roof, pine floors, hollow tile, metal lath, concrete and stone foundations, steam heating, electric lighting, tile and marble work, hollow metal skylights, fire doors, iron stairs, iron work. Architects will be ready for revised bids in two weeks.

Church (add.), Brooklyn, N. Y. Architects, Charles Bolton & Son, Witherspoon Building, Philadelphia. Owners, Reformed Church, Grove street and Anderok avenue, Brooklyn, N. Y. Stone. Preliminary sketches being drawn.

AS THE EDITOR SEES IT

(Continued from Page 764.)

thus for the present beat the advance, or wait and take a chance when the time comes, their course being largely influenced or determined for them on the point at the time by car scarcity and shipping possibilities, and such.

The order is in effect a virtual increase of about 33 per cent. on lumber freights. In dollars and cents it means not less than $6 added to the delivered cost of every thousand feet of lumber, a large advance in any circumstance and one which the industry cannot absorb. Whatever effect the increases may have on prices in general, it is certain that so far as lumber is concerned they mean higher prices to the public for all the lumber it buys.

And that is as sure as you live. Of course, some of the scoundrelly yellow journals will probably torture the statement in due time and jump to the conclusion that lumber is in for a 33 per cent. advance "by the Lumber Barons," or some such rot, which is something the words do not cannote. However, one can get inured even to misrepresentations of the yellows, much like the flea on David Harum's dog and his philosophy that a certain amount of fleas are good for a dog. They will keep the freight payer from brooding over the fact that he is the dog in the case. We fancy the same thing will substantially apply in all other lines, some naturally (such as the bulk commodities instanced), feeling it more for causes stated, but all commodities paying their share.

For many families seeking apartments and for corporations requiring increased office space to provide for business expansion, the co-operative plan of mortgage-free real estate ownership has helped solve the problem of soaring rents.

Present conditions in the mnoey market make it practically impossible to finance large building operations except on the co-operative plan. This method has worked out successfully in the building and ownership of numerous apartment house dwellings in New York City during the last twenty years.

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corporation's building, set aside a portion of the space for renting. The income from that part of the building not occupied by the stockholders is sufficient to afford a surplus over all operating expenses, insurance, and taxes.

When the corporation is organized, the stockholders purchase their space by paying a certain number of years' rent in advance. These payments defray the cost of construction of the building without dependence on the usual form of real estate mortgage. Figuring interest on his original investment at 6% and allowing 2% for amortization, the tenant owner will be able within approximately ten years to eliminate rent from the list of his annual fixed expenses. In addition to the saving in rent waste over a long period of years, the stockholder owns his office or his apartment, a tangible asset in itself.

The actuary of one of the large life insurance companies in New York has computed that a corporation purchasing under the co-operative plan office space renting for $50,000 a year—the purchase price being $350,000, the equivalent of seven years' rent—will be able to save $1,116,606 in twenty years. It is possible for this same corporation to amortize its investment of $350,000 in 9½ years and then save $766,066 in rent waste over the balance of a twenty year period.

As the first exmaple of the application of the co-operative ownership theory to the erection of a large office skyscraper, the plans for the Park-Madison Building in New York are being studied by real estate and building experts. This building with twin towers thirty-one stories high is to be erected over the New York Central railroad tracks just north of the Grand Central Terminal at a total estimated cost of $40,000,000. It will be one of the largest office buildings in the world.

A SEVENTEENTH CENTURY NEW ENGLAND FRAME HOUSE

One of the best preserved houses of the earlier Colonial Period in New England is the "Parson Capen House" in Topsfield, Mass., built in 1683 by the Rev. Joseph Capen and described in the latter bulletin of the Society for the Preservation of New England Antiquities. The house is now owned by the local historical society and was carefully restored in 1913 by its secretary. This house was well built, even for its day, and it possesses architectural embellishments unknown in other existing dwellings of that period. The second story widely overhangs the first in front, the garret floors project at either end and all are supported by ornamental wooden brackets. The overhang is a form of timber construction common in old English work and seems to have been done solely for its architectural effect. Beside the front door and under the gables are brackets that help to support the overhang.

The framework of these houses was usually of oak, though sometimes of pine and made of heavy timbers mortised and tenoned together and held in place by wooden pins. Their joints were hewn with much skill by men who worked as their medieval forefathers had done. The foundation timbers rested on an underpinning of field stones, laid without motar.

The timbers of the framing in the Parson Capen House are of course very old, and the original newel and turned balusters of oak are still in place. Much of the interior woodwork, however, and all of the shingles and clapboards are restored. This restoration serves to show how the houses of the early period looked when fresh from the hands of the builders. Under the northern ends of the "summer beams"—which is one of the curious features in the Parson Capen House—being girts spanning the rooms, is incised with a chisel the date, July ye 8th, 1683, so that the exact date when the "frame" was raised is known.

NEW YORK HOUSING CONDITIONS

Only such construction as will relieve the shortage of dwelling accommodations and such construction as in the public interest, should be given building permits, says Mayor Hylan of New York City, urging that legislation be enacted authorizing some responsible body to pass on permits for construction. The Mayor's report on local housing conditions show that at least 100,000 additional apartments are urgently needed to provide homes for the city's population. A total of 12,662 apartments and houses are now under construction but to meet the abnormal demand a sufficient number of tenement houses must be erected each year to provide at least 50,000 apartments. Under the state constitution New York City has no power to construct municipal apartment houses and rent them to private parties, but an amendment to the constitution can be passed and the city could then go ahead with its building program in January 1922. In the meantime, the Mayor says, there should be no standstill in the erection of homes and multi-family houses.

PEP PARAGRAPHS

A fool is one who doesn't know what he knows.

Cold feet and hot heads frequently travel together.

Pep is the salt of business; lack of faith is the bitters.

Knocking gains nothing; boosting gets respect, if nothing else.

Don't run away from the truth; meet it squarely and overcome it.

Worry never injured a fly, but a swat of the hand will kill the pest.

If you're looking for a lonely man, find one who hasn't enough to do.

Enthusiasm will blaze the way for any deal you want to put through.

If you want to land a certain job, know more about it than anyone else.

Co-operation is a fine thing, but learn to run under your own motive power.

Don't let personal feeling enter business; stick strictly to the merits of the proposition.

Fish may be caught with a hook and line, but it takes real brains and persistence to land an order.

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An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

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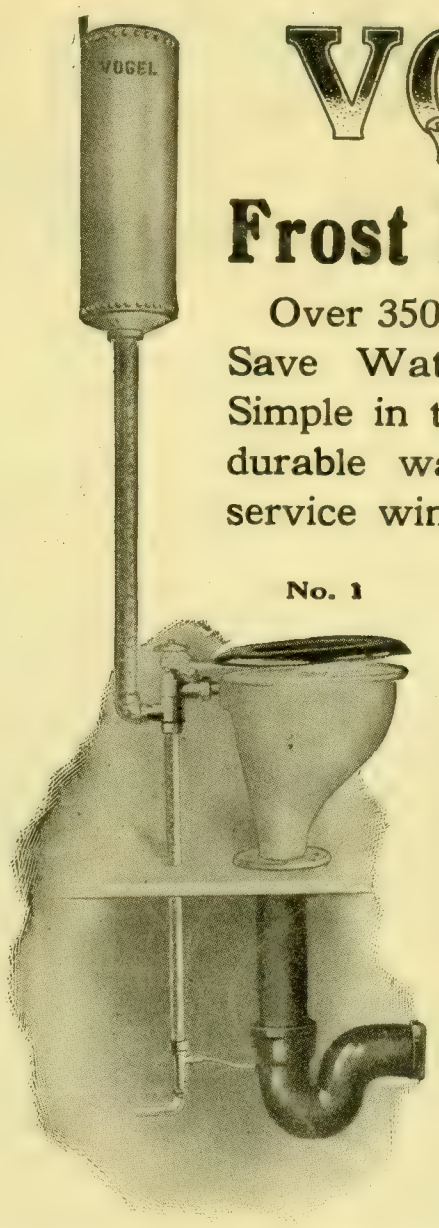
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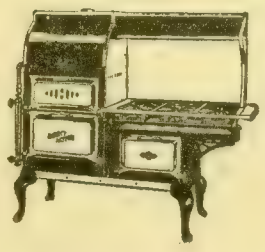
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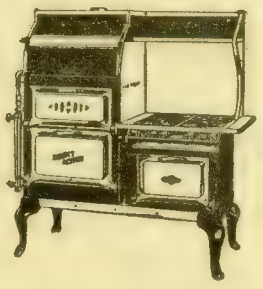
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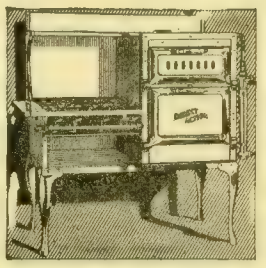


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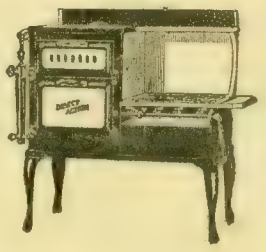
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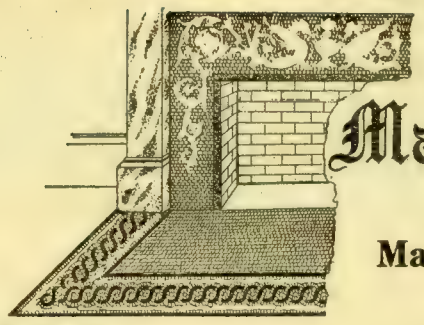
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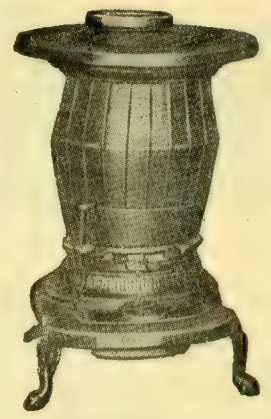
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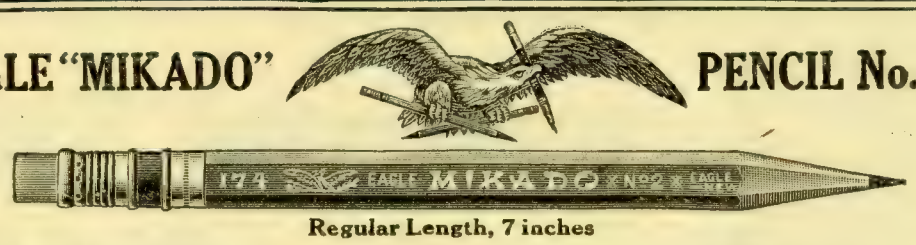
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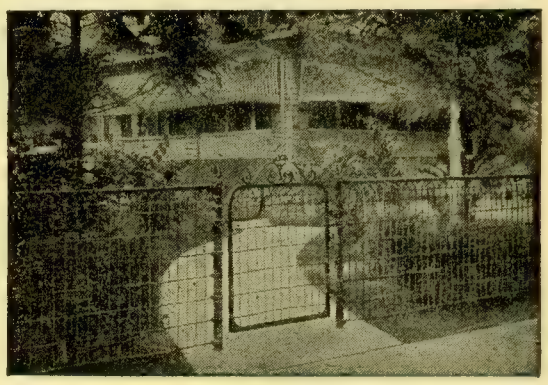
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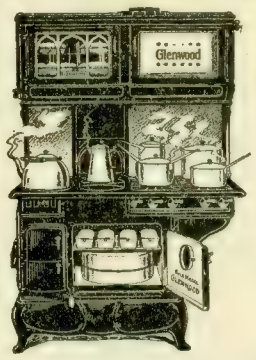
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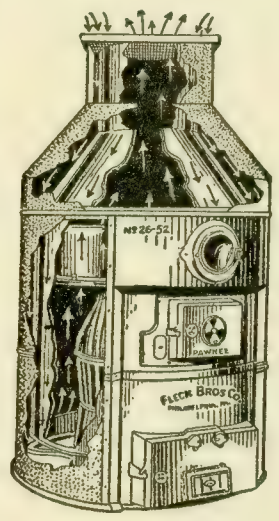


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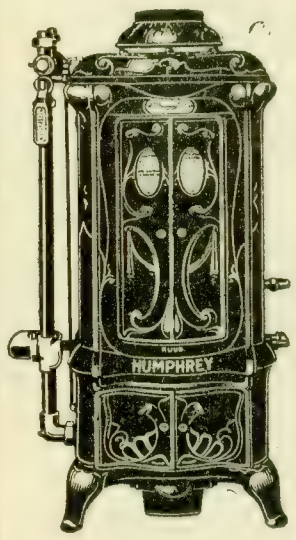
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VOLUME XXXV
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As The Editor Sees It

ECONOMY IN SCHOOLHOUSE PLANNING AND COSTRUCTION

BY W. R. MCCORNACK, ARCHITECT, BOARD OF EDUCATION, CLEVELAND, OHIO

This paper will treat with principles rather than details for the reason that mis-application of principles is generally the cause of great mistakes.

A prominent state official recently made public a statement that millions of dollars are being wasted in the State of Ohio in costly facades to school buildings. Unfortunately, this reflects an erroneous but often popular opinion, the facts being that in the most ornate public school buildings all the stone work, including base courses, steps, window sills, belt courses, copings and ornamental work does not exceed 4% of the total cost of the building and the ornamental stone work not more than 1%. For the aesthetic welfare of any community this small expenditure can and should be defended.

It is not elaborate facades but wasteful planning that costs money.

What are the causes of this waste?

The greatest cause is inadequate architural service, which must inevitably result in wasteful plans and inferior buildings.

In Ruskin's "Seven Lamps of Architecture" we read:

"Architecture is the art which so disposes and adorns the edifices raised by man, for whatsoever uses, that the sight of them may contribute to his mental health, power and pleasure."

It is a fact that there is a greater percentage of poorly designed and poorly built schools in this country than any other type of building, except some of the very cheapest commercial forms.

It is also a fact that only a very small percentage of the architect who have attained a commanding position in the profession due to careful training and ex-

Why is this true?

It is true too often because school authorities listen to architects who present their cases on the basis of cheap commissions, and because they claim they can build school buildings for less money than their competitors, and also because the architects and educator fail to co-operate.

Wheni the knowledge becomes common that a school is to be erected in a community not only are well qualified architects considered but less qualified of the profession present their cases, the latter agreeing to do the work for 3 or 4%, when it is a well known fact that no architect can provide thorough study and good service for any such price, yet many of the school authorities will be taken in by this argument.

Any architect who agrees to do work for less than the recognized rate of compensation and who guarantees to build for a certain price or forego his commission, is ignorant of the service he should render his client or he is dishonest, or he is both. How can an architect guarantee a price when he has no drawings before him, when contractors estimating from completed drawings vary so much in their estimates?

You buy clothing or any other material and expect to pay the merchant 15% or 20% or 25% profit. Without question you allow the contractor 10% or 15% profit with his overhead, but the architect is supposed to provide more service and assume more responsibility than the contractor, and the architect's smaller fee must include his overhead and what profit he can make and generally the low commission architect slights his work to squeeze out his profit.

Not until we appreciate architectural service on a higher plan with higher fees and make the architect financially responsible for all the errors in his plans, will school authorities secure service which means the elimination of waste in schools, better buildings which means less maintenance cost in the future, and structures of such architectural quality, that they should be an asset to the community.

Why not build something at the same price, charming and delightful, showing appreciation of architectural precedent and an intelligent use of materials, good proportions and forms, a credit to the

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architect, School Board and community?

The appearance of any building may be enhanced by small outlays of money in landscape gardening, yet how little is done, when all that is mean and sordid about any building or site can be so easily eliminated at so small a cost.

We talk more of standards and standardization than we do of the great broad problem of planning and construction. Standardization is an excellent thing, but it can lead us into dangerous by-paths.

In the Cleveland school system for years a certain desk was standardized. This desk required a room 25 feet wide and 32 feet long to seat 42 desks of a given size. By redesigning the furniture it was found possible to place the same number of desk in a room 24 feet wide and 28 feet long, thus bringing about a saving of 3000 cubic feet per room, which at a per cubic foot cost 20 cents, means a saving of $600.00 per room or more than double the cost of the furniture. In a thirty-room building this means a saving of $18,000.00. This amount at compound interest for 50 years, or the life of the building, amounts to $20,000.00 per room or $600,000.00 for a 30 room building —enough to pay for the building.

What seems to be very minor matters in planning are full of danger and financial calamity to groups of school authorities continuing to pursue a polcy of careless planning, and indicts any architect or school man continuing to disregard the study of the problem of saving space. On the other hand, this reduction in class room area does not show to advantage when comparing class room areas with corridor areas, and we must be alive to these facts in our studies of standardization and consecrative areas.

But there is a much more serious problem in the matter of waste space which has gone unchallenged for decades. It has caused such an alarming waste of money in this country that remedies must be found without further delay before millions of dollars more are thrown away.

This has to do with waste due to stairs, and corridors. There are 1,250,000 sq. ft. of floor space in the school buildings of Cleveland devoted to stairs and corridors. This is an area equivalent to 1560 class rooms or enough to accomodate 62,-400 children, and at the present cost of building in the City of Cleveland it would require $35,000,000 to construct this number of rooms.

Considering that Cleveland is equal to one hunderth and twentieth of the population of the country, the space devoted to stairs and corridors in the entire country is equal to 187,200 class rooms, or a seating capacity for 7,480,000 children, and the replacement cost would be $3,-744,000,000.00.

We must, however, admit that a certain amount of unusuable space is necessary in any type of building.

Cleveland has been studying the question of elimination of waste space with the result that three types of plans have been developed.

These types are:

First—One story corridorless elementary school—10% of the floor area in corridors.

Second—Three story corridorless elementary school—12% of the floor area in stairs and corridors.

Thrd—Junior High School combination one and three story building—15% of the floor area in stairs and corridors.

Assuming that 15% is the average amount of waste space in these new types of plans, there is a difference of 10% between the average waste space in the Clevelaind school today and the waste space in the proposed new types.

Therefore, 40% of the 1,250,000 sq. ft. of stairs and corridors in the buildings of our present system has been criminally wasted.

This is equivalent to 625 class rooms, representing seating accomodations for 25,000 children and these 625 class rooms at the present cost of construction in Cleveland would require $15,000,000.00 to replace. These 625 class rooms seating 25,000 children represent the actual shortage in Cleveland today.

Using the ratio of population of Cleveland to that of the nation mentioned above, the unnecessary waste in the entire country amounts to 75,000 class rooms or seating space for 3,000,000 children, and the replacement cost is $1,500,000,-000.00.

While I believe the figures I have quoted are fair, yet for the sake of making the comparison fairer on account of lower building costs in some section and possibly less waste in others, let us arbitrarly reduce the waste by 33-1/3% with the result that space equivalent to a seating capacity for 2,000,000 children at a replacement value of $1,000,000,000. has been wasted in the schools, in this country, while cheaper school buildings have been made necessary, while the children have been denied the refinements in equipment which they should have and the community buildings of the highest architectural and structural standards. Such architecture produces structures whose cheapness results in a tremendous overhead cost of maintenance, and these results have been brought about by architects who have not thought of buildings as having a financial return on the investment.

This deplorable situation exists because a school building has never shown nor is it probably possible to have it show a financial return on the investment.

Hotels and office buildings require a large amount of stairs, corridors and lobbies, because of the small units each of which must be reached independently, yet no hotel or office building properly planned shows more than 15% in waste space, and mercantile establishments and factories almost nothing. No architect could survive who planned buildings of this type which require a definite fin-

(Continued on Page 790.)

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Garage, 6907 Boyer street, Germantown, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, John Williams, Jr., on premises. Stone, half timber and stucco, 1½ stories, creodipt shingle roof, cement and pine floors, stone foundations, hot water heating, electric lighting. Architect will be ready for bids in a few days. s

Vault (alts.), Twelfth and Chestnut streets, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, Continental Equitable Title & Trust Co., on premises. Interior cabinet work in vault. Architect is taking sub-bids due as soon as possible.

Building (add.), Fifty-second and Gray's avenue, Philadelphia. Architect, private plans. Owner, Tioga Iron & Steel Co., on premises. Brick, 1 story, 16x79 feet, slag roof, cement floor, electric light. Owners taking bids. Lam Building Co., 1001 Wood street, Philadelphia, is figuring.

Building (alts. and add.), Germantown, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owners, Wissahickon School Club, Germantown, Philadelphia. Carpentry, maple floors, cement and brick work, iron and metal work, slag roof, plastering, hardware, plumbing, painting and glazing. Architects have received bids.

Ice Storage Building (add.), Robinson street, south of Haverford avenue. Architect, private plans. Owners, Cave Ice Mfg. Co., on premises. Brick and steel, 1 story, 27½x113 feet, slag roof, cement floors, electric lighting. Owners will build.

Bank Building, 901-03 Walnut street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owners, Abe Kolsky & Co., 730 South Fifth street, Philadelphia. Brick, steel and limestone, 2 stories, 120x48 feet, slag roof, pine and oak and composition floors, metal lath, roof ventilators, hollow metal skylights, iron work, tile and marble work, steam heating, electric lighting, stone foundations. Bond. Revised plans in progress. Architect will take new bids in a week.

Garage, 1707 Vine street, Philadelphia. Architect, private plans. Owners, Fleischmann Yeast Co., 1221 Race street, Philadelphia. Brick and concrete, 3 stories, 36x124 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting, rolled steel sash, hollow metal skylights, rolling steel doors, fire doors, (1) elevator. Owners have received bids.

Office Building, 709-11 Chestnut street, Philadelphia. Architect, Max Bernhardt, 721 Walnut street, Philadelphia. Owner, name withheld. General alterations, steam heating, electric work and fixtures, plumbing, tile work, hollow metal skylights, fire doors, brick fire tower, cement work, electric elevator. Plans in progress.

Shelter Building, Front and Allen streets, Philadelphia. Architect, John P. B. Sinkler, City Architect, City Hall, Philadelphia. Owner, City of Philadelphia, Bureau of Recreation, 587 City Hall, Philadelphia. Brick, 1 story, 14x20 feet, slate roof, cement floors, stone foundations, hot water heating, electric lighting, plumbing. Owners takin bids due September 10th. Plans may be obtained from Room 825.

Church (alts.), Forty-sixth and Larchwood avenue, Philadelphia. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Clarence E. Siegel, Forty-seventh and Larchwood avenue, Philadelphia. General remodeling of church into residence. Plans in progress.

Residence (alts. and add.), 1813 Pine street, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Drs. Muttart & Pennock, care of architect. General interior alterations, electric lighting. Plans in progress.

Store Building (remodeling), 1229 Market street, Philadelphia. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owner, Goodlow Corporation, care of architect. Brick, 3 stories, general remodeling, new front. Preliminary plans in progress. Architect will be ready for bids in one month.

Residences (2), Ninth street, North of Oak Lane avenue, $18,000. Architect, private plans. Owner, P. A. Waltz, 6610 North Seventh street, Philadelphia. Brick, 2 stories, 16½x42 feet, slag roof, hot water heating, electric lighting, oak and pine floors. Owner will build.

Store Building, Germantown and Lehigh avenues, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Jacob Hess, on premises. Brick, steel and terra cotta, 2 stories, 52x62 feet, slag roof, pine floors, metal lath, elevators, waterproofing, iron work, hollow metal skylights, tile and marble work, stone foundations. Bond. Architect has received bids.

Lumber Storehouse, Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, Frankford Arsenal, care of Major J. Lumsden, Philadelphia. Brick and concrete and steel, 1 story, 247x80 feet, stone foundations, Johns-Manville built-up roof, cement floors, hollow tile, bond. Revised plans in progress. Owners will take new bids.

Bank Building, Kirkbride street, Bridesburg, Philadelphia. Architect, private plans. Owners, Bridesburg Branch of the Oxford Bank of Frankford, care of Oxford Bank, Overington street and Frankford avenue, Philadelphia. Brick and steel, 1 story, 16x32 feet, slag roof, stone foundations, pipeless heater, electric lighting, pine floors. Bond. Owners taking bids due September 10th. William R. Dougherty, 1610 Sansom street, and Edward T. Bender, 6014 Torresdale avenue, Philadelphia, are figuring.

Lumber Storehouse, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, United States Government, care of Major J. Lumsden, Frankford Arsenal, Philadelphia. Brick, concrete and steel, 1 story, 247x80 feet, stone foundations, Johns-Manville built-up roof, cement floors, hollow tile. Bond. Lowest bids submitted by F. A. Foster Co., 43 South Seventeenth street, Philadelphia, $31,700, 120 days; H. John Homan Co., 34 South Seventeenth street, Philadelphia, $34,600, 100 days.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store Building (alts.), 3711 Spruce street, Philadelphia. Architects, Folsom & Stanton, Fuller Building, Philadelphia. Owner, B. Cohen, on premises. New front, brick work, stone work, cement work, gas steam heating, electric lighting, composition floors. Contract awarded to Nathan Litman, 2030 South Fifth street, Philadelphia.

Store Building (alts.), 3709 Spruce street, Philadelphia. Architects, Folsom & Stanton, Fuller Building, Philadelphia. Owner, Louis M. Kolb, 3709 Spruce street, Philadelphia. New front, brick work, stone work, cement work (electric work reserved), 1 story and basement, gas steam heating, composition floors, marble work, metal lath. Contract awarded to Nathan Litman, 2030 South Fifth street, Philadelphia.

Garage, Germantown avenue and Mt. Pleasant avenue, Philadelphia, $35,000. Architect, private plans. Owner, Charles Hemberger, Eighteenth and Blavis streets, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric lighting, steam heating. Contract awarded to H. E. Sweger, 4435 North Uber street, Philadelphia.

Storage Building (add.), 137 Vine street, Philadelphia, $8,000. Architect, private plans. Owners, S. Kordan, Northeast Corner Second and Vine streets, Philadelphia. Brick, 4 stories, 18x16½ feet, slag roof, concrete work. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Storage and Store (alts.), 1846-48 Passyunk avenue, Philadelphia, $3,400. Architect, private plans. Owner, Fiore Tavain, 1808 Passyunk avenue, Philadelphia. General alterations. Contract awarded to W. O. Springer, 2004 Naudain street, Philadelphia.

Store and Storage (alts. and add.), 1601-03 Susquehanna avenue, $3,000. Architect, private plans. Owner, E. Spiero, on premises. Brick, second-story add., 13x10 feet, 1 story add., 14x14 feet, slag roof, pine floors. Contract awarded to K. Bankoff, 1318 South Reese street, Philadelphia.

Machine Shop and Engine Room, Third and Luzerne streets, Philadelphia, $10,000. Architect, private plans. Owner, Schuylkill Forge Co., Third and Luzerne streets, Philadelphia. Brick and steel, 1 story, 101x37 feet, slag roof, cement floors, stone foundations. Contract awarded to George H. Evans, 43 North Thirteenth srteet, Philadelphia.

Store and Residence (alts.), Ninth and Locust streets, Philadelphia. Architects, Tunis & Genther, Real Estate Trust Building, Philadelphia. Owner, Don Levin, on premises. Brick work, carpentry, mill work, pine floors, iron work, slag roof, hot water heating, plastering, marble and tile work, electric lighting. Bond. Contract awarded to A. P. Lucker, 5136 Parkside avenue, Philadelphia.

Garage, Pentridge street, East of Fifty-first street, Philadelphia, $14,000. Architect, private plans. Owner, Dr. Regan, 24 North Eleventh street, Philadelphia. Brick, 1 story, 60x17 feet and (2) wings, 16x103 feet, slag roof, cement floors, electric lighting. Contract awarded to C. E. Biddle, 1105 Real Estate Building, Philadelphia.

Garage, Southwest Corner Boston and Salmon streets, Philadelphia, $7,000. Architect, private plans. Owner, Joseph Hunter's Sons, 2410 Richmond street, Philadelphia. Brick, 1 story, 40x80 feet, slag roof, cement floor, electric lighting, steam heating. Contract awarded to Willard Myers, 2135 East Firth street, Philadelphia.

Manufacturing Building (alts. and add.), Orianna and Willow streets. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, E. Hubschman, Orianna and Willow streets, Philadelphia. Steel, reinforced concrete and brick, 1 story, 59x110 feet, wing 17x21 feet, slag roof, cement floors, concrete and stone foundations, rolled steel sash, fire doors, iron work. Bond. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia.

Arsenal Bridge Sub-station (alts. and add.), Philadelphia. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and terra cotta, 2 stories, 19x36 feet, asphalt mastic roof, concrete floors, hollow tile, stone foun-

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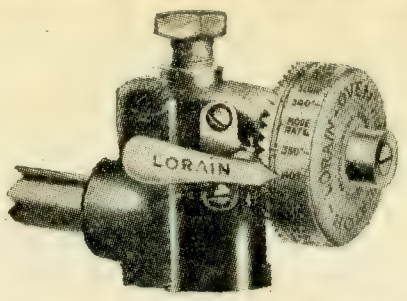
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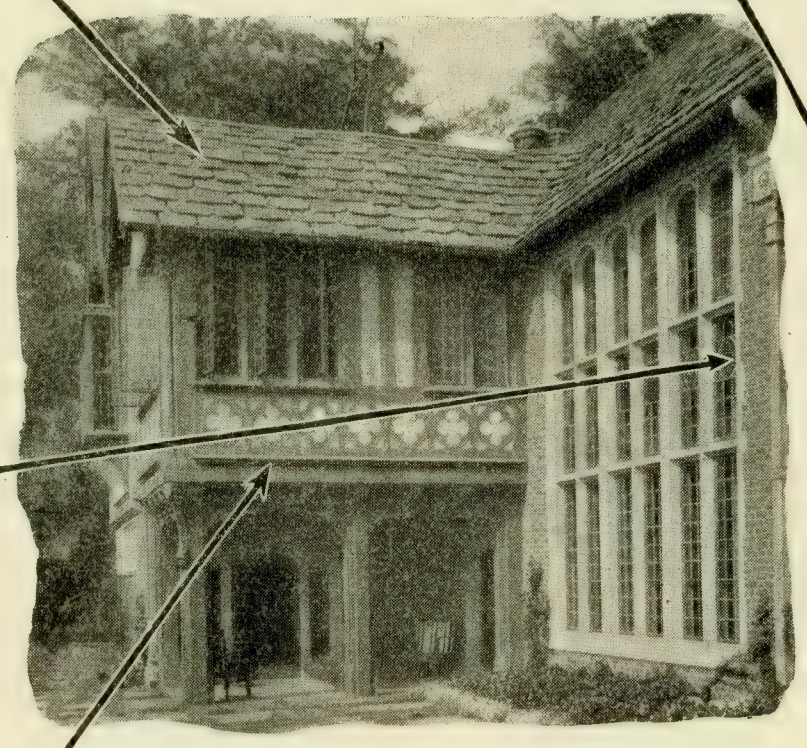
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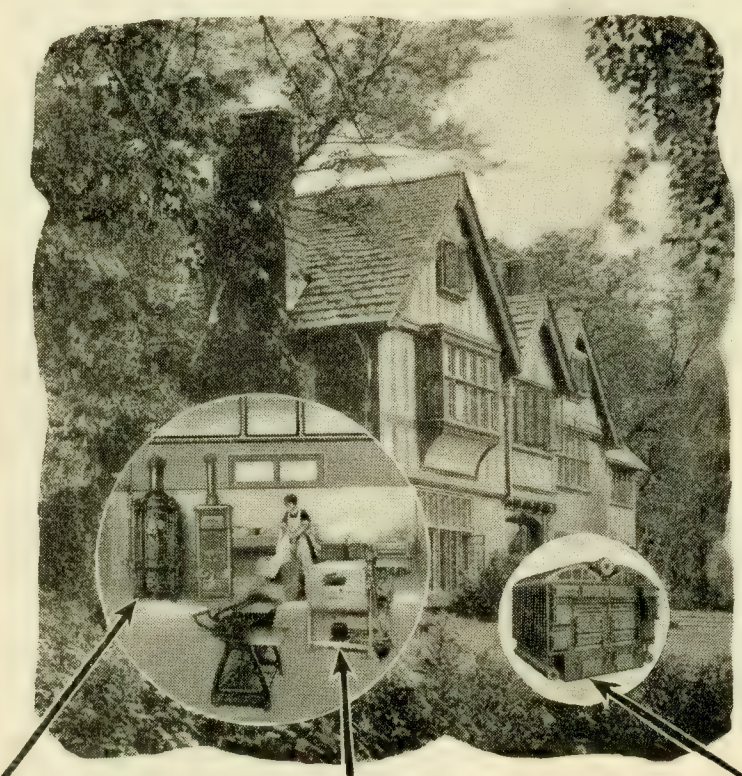
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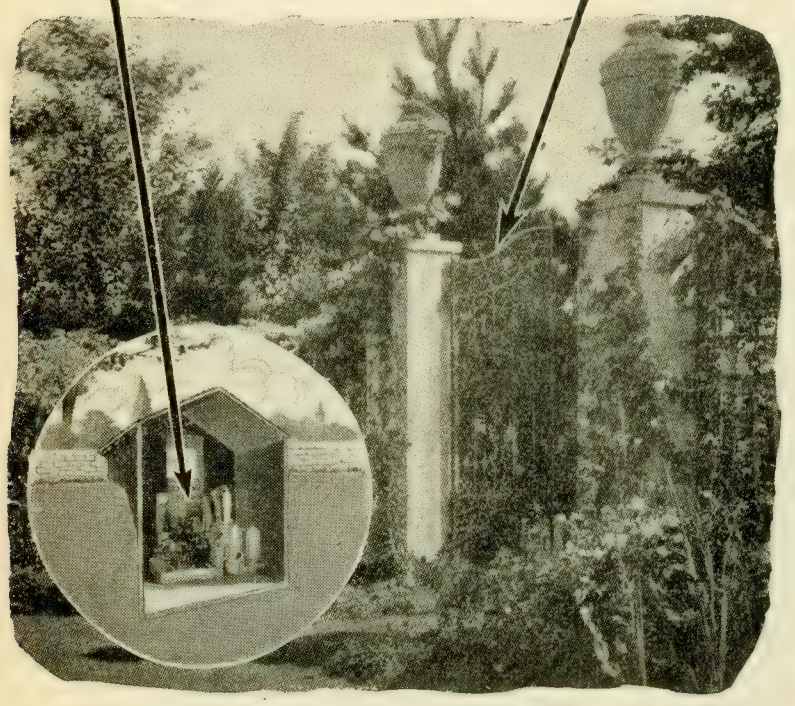
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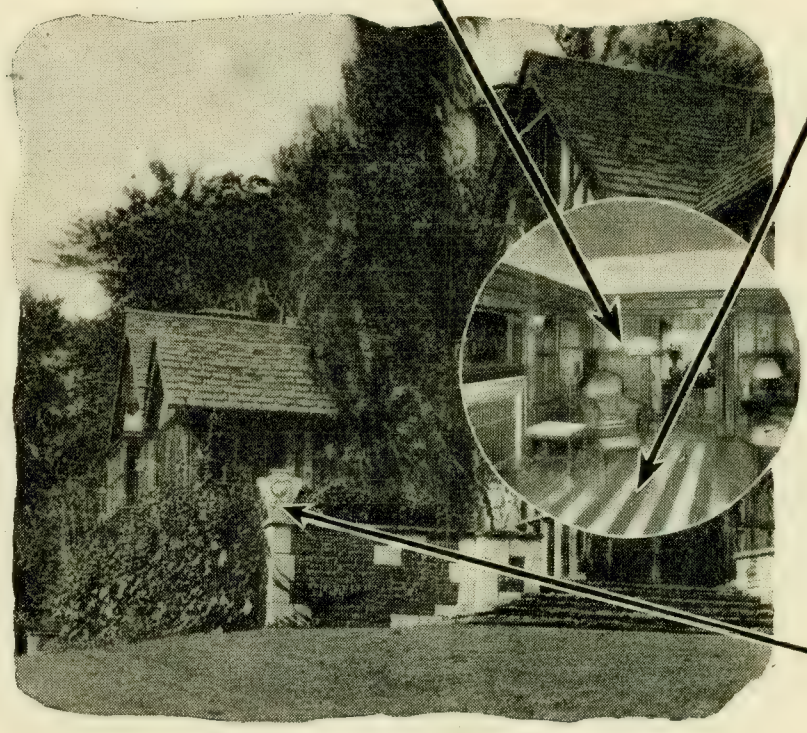
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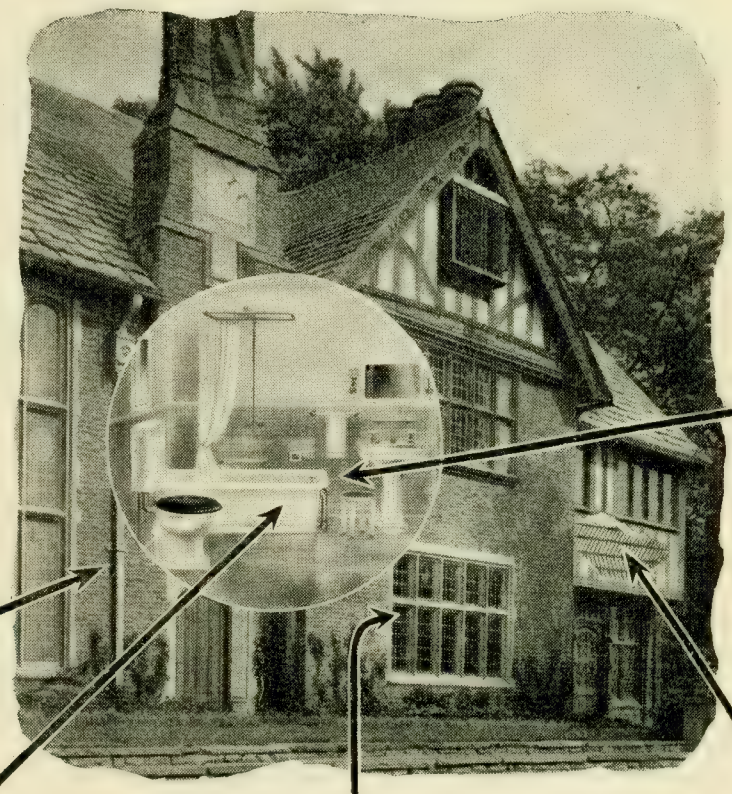


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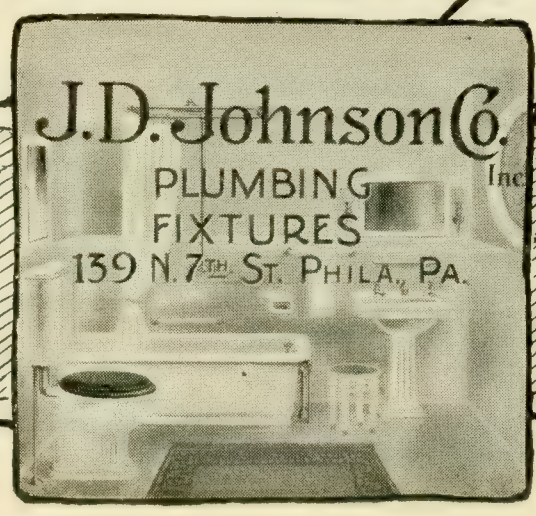
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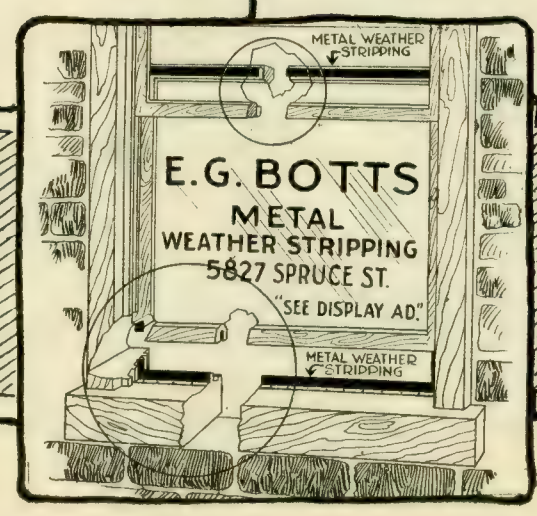






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dations, rolled steel sash. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Manufacturing Building (add.), Belfield avenue, South of East Penn street, Philadelphia, $10,000. Architect, private plans. Owners, National Umbrella Frame Co., Thirtieth and Thompson streets. Stone and tile, 1 story, 61x126 feet, slag roof, cement floor, electric lighting. Contract awarded to George H. Whitemar, 403 East Penn street, Philadelphia.

Residence (alts. and add.), 1024 Clinton street, Philadelphia, $10,000. Architect, private plans. Owner, Hannah Fox, 339 South Broad street, Philadelphia. Brick, 1 story, 7x18 feet, electric lighting, hardwood floors, hot water heating, general interior renovation. Contract awarded to Octavia Hill Association, 613 Lombard street, Philadelphia.

Store and Dwelling (alts. and add.), 1354 Wagner avenue, Philadelphia, $4,000. Architect, private plans. Owner, Charles G. Stout, on premises. Brick, third story add., 14x28 feet, slag roof, pine floors, heating and lighting extension. Contract awarded to John F. Carberry, 1974 Medary avenue, Philadelphia.

Theatre (alts.), Ninth and Walnut streets, Philadelphia, $100,000. Architect, Ritcher Lee Co., 32 South Seventeenth street, Philadelphia. Owner, James P. Beury, 3427 North Seventeenth street, Philadelphia. General renovation of entire building, composition roof, steam heating, electric lighting, tile work, marble work, iron work. Contract awarded to Lincoln Smink, Ninth and Walnut streets, Philadelphia.

Warehouse (add.), Northwest Corner Front and Quarry streets, Philadelphia, $40,000. Architect, private plans. Owners, Terminal Warehouse & Transfer Co., Delaware avenue and Green street. Brick, 6 stories, 36½x112 feet, slag roof, concrete floors, electric lighting, elevators. Contract awarded to Wilson & Ruff Co., engineers, Franklin Trust Building, Philadelphia.

Storage and Warehouse (alts.), 104-06 North Delaware avenue, $6,000. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, W. J. Perkins, on premises. Carpentry, mill work, iron work, plastering, cement work. Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Junk Shop and Dwelling (add.), 402 East Haines street, Philadelphia, $5,700. Owner, S. Plumb, on premises. Brick, 1 story, 30x51 feet, slag roof, cement floor, electric light, res. add. 2 story, 20x12 feet, brick, slag roof, pine floors. Contract awarded to DeVolis & Stabelith, care of owner, Germantown, Philadelphia.

Moving Picture Theatre (alts.), Southwest Corner Girard avenue and Franklin street, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, Astor Theatre Co., Seventh and Girard avenue, Philadelphia. General interior alterations. Contract awarded to Girard Realty Cont. Co., 3220 Columbia avenue, Philadelphia.

Store and Dwelling (alts. and add.), 4459 Frankford avenue, $5,180. Architect, private plans. Owner, Jacob Kramer, 2939 Frankford avenue, Philadelphia. Brick, 1 story, 15x12 feet, slag roof, pine floors, flush bulk, electric lighting, general alterations. Contract awarded to Daniel Snyder & Sons, 3359 Frankford avenue.

Tenement House (add.), 1630 North Fifteenth street, Philadelphia, $5,000. Architect, private plans. Owners, Rebecca West and Amy Miller, on premises. Brick, 2 stories,

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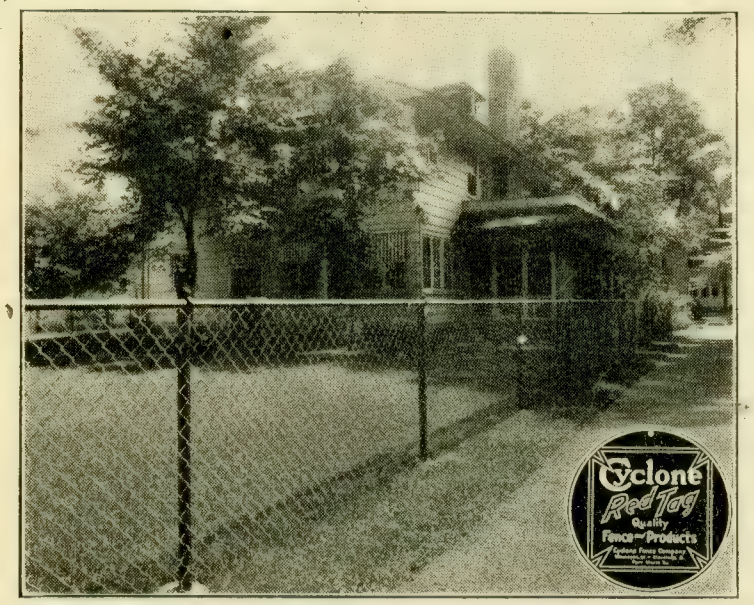
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16x14½ feet, slag roof, electric lighting, slag roof, pine floors, general alterations. Contract awarded to M. C. Magill, 5703 Baltimore avenue, Philadelphia.

Bank Building (alts. and add.), Front and Norris streets, Philadelphia, $20,000. Architects, William Steele & Sons Co., Inc., Sixteenth and Parkway, Philadelphia. Owners, Industrial Trust Co., Front and Norris streets, Philadelphia. Brick, 1 story, 14½x19 feet, slag roof, tile work, marble and terrazzo work, skylights. Contract awarded to William Steele & Sons Co., Inc., 1600 Parkway.

Store (alts.), Erie avenue and Germantown avenue, Philadelphia, $16,500. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Store Co., Fifteenth and Chestnut streets, Philadelphia. Carpentry, hardware, plastering, plumbing, painting, glazing, metal lath, tile work, iron and steel work, marble work (electric work and mill work reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

PENNSYLVANIA
Construction News

Residence, Norristown, Pa. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, Henry P. Friend, Inc., Norristown, Pa. Hollow tile and plaster, 2½ stories, 27x41 feet, tile roof, hot water heating, electric lighting, hardwood floors. Plans in progress. Owner will take sub-bids.

Residence, No. 2, Elkins Park, Pa. Architect, J. Harry Parker, 129 South Fifth street, Philadelphia. Owner, Russell Spruance, 135 South Second street, Philadelphia. Hollow tile and stucco, 2½ stories, 30x45 feet, slate roof, steam heating, electric lighting, tile work, hardwood floors. Architect taking bids due September 24th. W. John Stevens, Inc., Wyncote, Pa.; E. Allen Reeves, Abington, Pa.; Henry Specht, Willow Grove, Pa., and T. S. Fetter, 1829 Filbert street, Philadelphia, are figuring.

Residence (add. of sun parlor), Cynwyd, Pa. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, Stanley King, Cynwyd, Pa. Plaster and frame, 1 story, 17x13 feet, slag roof, pine and oak floors, stone foundations, hot water heating, electric lighting, tile work, iron work. Bond. Architects have received bids.

Building (alts. and add.), Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Ardmore Hardware Co., Ardmore, Pa. Brick and steel, second and third stories, 44x20 feet, slag roof, pine floors, metal lath, electric lighting. Owner taking bids due as soon as possible. Herbert G. Campion, Otis Building, Philadelphia, is figuring.

Residence (alts. and add.), Ivyland, Pa. Architect, J. Harry Parker, 129 South Fifth street, Philadelphia. Owner, Dr. Samuel McIhaten, Ivyland, Pa. General interior alterations and addition. Plans in progress.

Factory, Nazareth, Pa., $100,000. Architect, E. H. Bitting, Wilbur Trust Building, Beth-



The Four Hundred!

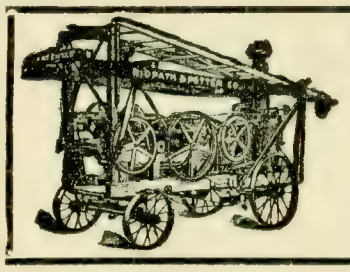
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lehem, Pa. Owner, name withheld. Too early for details.

Home, Sixth and St. John's streets, Allentown, Pa. Architects, Ruhe & Lange, North Sixth street, Allentown, Pa. Owners, Good Shepherd Home, care of J. H. Baker, on premises. Brick, 3 stories, irregular size, pine floors, electric light. Preliminary plans in progress.

Dormitory and Administration Building, New Bloomfield, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Carson Long Institute, care of T. K. Long, New Bloomfield, Pa. Brick, 3 stories and basement, 120x50 feet, stone foundations, hardwood floors, electric light, tile work. Plans in progress.

Theatre, Borough of Wilson, Pa. Architect, J. M. Shnyder, Trust Building, Easton, Pa. Owner, Twin City Theatre Co., C. D. Buss, 104 North Fourth street, Easton. Brick, 1 and 2 stories, 125x112 feet, concrete foundations, slag roof, concrete floors, electric light (heating reserved), hollow metal skylights, roof ventilators. Architect has received bids.

Bank and Apartment, 118 Northampton street, Easton, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, F. Kurlansik, Easton, Pa. Terra cotta, stone, 4 stories, stone foundations, Barrett Spec. roof, hardwood floors, electric light, tile and marble work, rolled steel skylights, bank fixtures, roof ventilators. To be built by day work, care of architect.

Pennsylvania Contracts Awarded

Club House (alt. and add.), Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Aberfoyle Country Club, Chester, Pa. Stucco, 2 stories, 72x26 feet, stone foundations, shingle roof, composition and pine floors, metal lath, galvanized iron skylights, waterproofing (electric work and heating reserved). Bond. Contract awarded to William Provost, Jr., Chester, Pa.

Residence, No. 3, Valley road, Merion, Pa. Architects, Hance, Neely & Mitchell, 1619 Chestnut street, Philadelphia. Owner, William E. Hexamer, 1619 Chestnut street, Philadelphia. Frame, clapboard, 2½ stories, 30x60 feet, shingle roof, oak and tile floors, stone foundations, hot water heating, electric lighting. Contract awarded to E. A. Wheeler, 122½ North Sixteenth street, Philadelphia.

Passenger and Freight Station, Shamrock, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Frame, 1 story, 20x45 feet, slate roof, stone foundations. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia, on cost plus basis. Note change in contractor. Builder wants sub-bids on this job.

Store (alts.), Easton, Pa. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner, name withheld. Interior cases, electric wiring, painting, plaster, glass, metal front, leaded glass, marble work, general interior alterations. Contract awarded to Bechtel & Bechtel, Easton, Pa.

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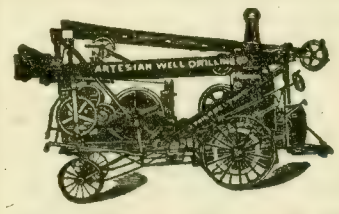
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New Jersey Construction News

Office on roof of Cabinet Building No. 17-B, Delaware avenue and Market street, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick and steel, 1 story add., 190x40 feet, wing 71x26 feet, slag roof, terrazzo and maple floors, metal lath, roof ventilators, iron work, rolled steel sash and skylights, kalamein doors. Bond. Architects have received bids.

Residence (alts. and add.), Chelsea, N. J. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. H. Geist, Land Title Building, Philadelphia. Solarium, 20x24 feet, mill work, painting, plumbing, oak floors, tile terraces, electric lighting, tile work. Architects taking bids due September 9th at 2 P. M. Charles D. Thompson, Pleasantville, N. J.; Wilber Beaumont, 12 South Tennessee avenue, and J. Mathis & Son, Guarantee Trust Building, both of Atlantic City, N. J., are figuring.

New Jersey Contracts Awarded

Church (alts. and add.), Pitman, N. J. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Methodist Episcopal Church, Pitman, N. J. Frame, 1 story, 38x75 feet, shingle roof, pine floors, stone foundations, steam heat, electric light, ornamental iron work, plastering, painting, plumbing, sheet metal work, carpentry, mill work. Contract awarded to W. A. Lacy, Pitman, N. J.

School, Morris Park, N. J. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Lopatcong Township, care of architect. Brick, 2 stories, 40x60 feet, concrete foundations, slate roof, hot air heat, electric light. Contract awarded to Benjamin Ryman, Eason, Pa.

Delaware Construction News

Parsonage, Twenty-second and Church streets, Wilmington, Del., $6,000. Architect, private plans. Owner, Trinity Methodist Episcopal Church, 922 East Seventeenth street, Wilmington. Brick, 2½ stories, 25x30 feet, stone foundations, slate roof, hardwood floors, hot air heating. Owner will build.

Residence, 2202 West Sixteenth street, Wilmington, Del., $8,000. Architect, private plans. Owner, H. W. Smyth, 2406 West Sixteenth street, Wilmington, Del. Hollow tile, 2 stories, 26x42 feet, stone foundations, slate roof, hardwood floors, hot air heating, electric lighting. Contract awarded to Smyth Const. Co., 826 Orange street, Wilmington, Del.

Store (alts.), 103 West Eighth street, Wilmington, Del., $6,300. Architect, private plans. Owner, Clarence McCaulley, College Inn, Wilmington, Del. General interior alterations. Contract awarded to W. D. Haddock Co., Wilmington, Del.

Residence, 607 South Claymont street, Wilmington, Del., $7,000. Architect, private plans. Owner, Ralph Grooves, 709 Broome street, Wilmington, Del. Brick, 2½ stories, 26x32 feet, stone foundations, asphalt shingle roof, hardwood floors, hot air heating, electric lighting. Contract awarded to F. Samworth Sons, 1508 Lancaster avenue, Wilmington, Del.

Store (alts.), 605-09 Market street, Wilmington, Del., $14,000. Architect, private plans. Owners, Crosby & Hill Co., on premises. Brick, new front, general interior alterations. Contract awarded to Heindle & Samworth, 1600 West Fourth street, Wilmington, Del.

(Continued from Page 780.)

ancial return on the investment who would plan a building with the excessive amount of waste space existing in our schools. In addition add to the corridor and stair waste, all the basements, oversized rooms, schools used during a small portion of the year, and we have a condition of waste of school funds so stupendous as to be almost beyond belief.

Three types of school plans are presented for your consideration, which are offered as a possible solution of some of the evils which have been mentioned.

These plans are as follows:

Slide 1—One story corridorless elementary school having large play courts with the auditorium separated by double movable partitions thoroughly soundproofed—power plant outside of building—cast iron smokeless oil burning boilers.

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Slide 2—Three story corridorless elementary school—double play courts—unit system of plan-unit system of stairs—power plant outside of building.

Slide 3—Combination one and three story Junior High School plan—three story front section of class rooms extendable—Auditorium and gymnasium in the center surrounded by one story shop section also extendable.

These plans are a further advance over the ones shown last year, and we believe that they are merely pointing a way toward a broader and more comprehensive study of school buildings which shall be more elastic and less wasteful. Let us strive for better architectural service which has been the actual cause of this terrible waste, and it is the chief medium through which better conditions can come.

It is time for all school architects and school men to stop and at once inaugurate a policy of intensive study of the school building problem; to reduce its cost without injuring its beauty and its usefulness or construction value, and I believe this study should be concerted and nation wide, and that a National Bureau for such study is not too visionary a proposal to be idly passed by.

In conclusion, let me quote the words of Ruskin, who has stated more clearly than any one I have ever read, a great truth.

"All work of quality must bear a price in proportion to the skill, time, expense and risk attending their invention and manufacture. Those things called dear, are, when justly estmated, the cheapest. A composition for cheapness and not for excellence of workmanship is the most frequent and certain cause of the rapid decay and entire destruction of arts and manufacture."

"SKILL, INTEGRITY, RESPONSIBILITY"

Classification of Contractors by Standard Ratings Proposed to Stimulate Efficiency

BY LEONARD C. WASON, ABERTHAW CONSTRUCTION COMPANY, BOSTON.

MAKING preparations for things that do not happen usually implies waste—sometimes waste of energy, sometimes waste of both energy and money.

Maintaining an organization to attract business only a fraction of which is eventually secured is a necessary process, yet it contains elements of waste. Ordinarily this waste is not considered serious if it bears sufficiently low ratio to actual scales. But, as the ratio increases, there must come a time when selling costs will constitute an intolerable burden of overhead expense.

Without carrying this part of the discussion further, it will probably be admitted that, if that part of selling—or business-getting—which consists of barking up empty trees, could be eliminated, or materially reduced, much waste would be avoided.

These considerations hold particularly in the case of construction enterprises. He would be rash who would atempt to guess the amount of fruitless expenditure on the part of contractors in the preparation of estimates and proposals for work—especially public undertakings, that is never awarded them. Their only means of gaining consideration is to go through the formula, knowing all the time that the engineer in charge always may rule out a favorable proposal on the ground that the contractor making it is probably incapable of meeting all the obligations entailed in his offering.

AVOIDING WASTE THROUGH CLASSIFICATION

Under existing circumstances the right to reject any proposal must, of course, reside with the engineer in charge. Yet waste would be avoided by restricting the competition in advance to contractors who can render satisfactory proof of capability for the type and magnitude of the work to be undertaken. Such capability should be immediately determinable in accordance with a system of marks or ratings which a board of engineers and contractors could, without much difficulty, devise.

Given a task of known magnitude, it is a simple matter to compute the amount of liquid capital which a contractor must eventually command in order safely to assume the operation. By the same sign, when the nature of a large work is clearly understood, it is foolish to consider—even in theory—placing it in the hands of a contractor who is unable to supply adequate proof of special experience on his own part and on that of the supervisors in his employ.

The item of "plant"—equipment—is of constantly increasing moment. What kind of plant, and in what quantity, does the projected development require? Does the competing contractor own this equipment? If so, in what condition has he maintained it? If not, how and where does he purpose to get it, and what assurance has he that he will not be disappointed?

INSURING THE EXISTENCE OF THE ESSENTIALS .

Eliminate any one of the factors, capital, experience, equipment, and the multiple—satisfactory accomplishment—can never be obtained. That is virtually self-evident. The advisability of insuring the existence of the factors before talking of setting them into operation seems equally clear. If the suggested



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system of marks, or ratings, were in active existence the engineer in charge of the work on which proposals were to be invited would announce at the outset the limits of ratings within which the proposals of competing firms or individuals would receive consideration.

Such a definition of terms would rid the competition of the purely speculative and irresponsible bidder, as well as of the honest but over-optimistic seeker after business. In so doing it would relieve the engineer of the grave responsibility of rejecting certain bids solely on the basis of his judgment, or of general report. It would have the further advantage of bringing the bidding contractor to a clearly understood common denomination of ability and intention that would make comparisons of their proposals a simple one. In a larger proportion of cases than under existing methods, the award would go to the one making the most attractive offer.

If we ever reach the point of specifying the qualifications of contractors instead of stopping at the specification of materials and processes, we may, perhaps, hope to see adopted the device of making payments to contractors to cover the cost—often extremely heavy—of preparing their estimates. It is a cost that must be met by someone,—in the first instance the contractor. But he, in due course, dilutes it through the profits of the jobs that he obtains, thereby making them pay toll to the jobs that he loses.

A METHOD OF GUARANTEEING SKILL, INTEGRITY, AND RESPONSIBILITY

Here then is waste:—waste much of which is avoidable by the comparatively easy and completely honest process of rating contractors according to proved qualifications. Nothing invidious is implied in this process, nor is there anything in it to prevent the contractor from securing added recognition as it is due. It would, indeed, stimulate effort by recording growth through various stages, each carrying its virtual guarantee of capability. Hence, in accomplishing an economic good, it would, in addition, achieve the ethical good of raising the whole tone of the contracting business from that of a too often uncertain trade to that of an honorable profession.

—The Bulletin.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

PLAY SAFE ON COST QUOTATIONS

THE day is past when snap judgment cost quotation is either safe or sensible. In the pleasant days before the war when we were all more or less educated to the standard of building material and labor cost, it was easy enough to answer the usual question of a client who wanted a job done. The procedure then was for the client to show the plans of a house, probably one he had clipped from some publication, and say, "Bill, how much do you think you can build this house for?" and you would say, "Well, John, I think we can get away with it for about $7,000." And you would probably be right, particularly if you had figured roughly on the cubic foot basis.

Today, when he asks you the same question, a habit which the prospective home-builder has outgrown, you are quite likely to tell him $10,000 and the job will cost $12,000 or $13,000. Or possibly, being of a "safety first" nature, you will tell him $14,000, when it will cost only $11,000 or $12,000. You are particularly likely to do this if you have just been stung on a contract. What is the result? He goes to another builder, who tells him $11,000, and in the usual manner of the prospective builder, he is impressed by the lower cost, and feels that the man who quoted that cost to him knows more than you do. On the other hand, if you quoted him a snap cost of $11,000 and when he gives you working drawings and tells you to figure, it runs $14,000 he still thinks you don't know your business.

Costs today are certainly difficult to keep up with, and the only safe way to figure on a cubic foot basis is to take the experience of last month and add about 20%.

From the advice of many builders who are successfully getting work today, it would seem that it is much better to lay the cards on the table and tell the prospective client that you can not give him the cost without the careful study of the plans.

COST-PLUS BUILDING

In many instances today, building contractors are doing work on a service basis rather than a guaranteed cost contract. In cases of this type the owner places great confidence in the builder, and pays him for his expert service in carrying out the work a commission amounting usually to 10% of the cost of labor and material. This is of course an ideal arrangement from the builder's viewpoint and one which should not be overlooked if a service of this nature is to be built up.

Quoting cost under this type of contract is an exceedingly delicate matter. Very careful estimates should be made before any figure is given to the owner, and for contingencies 10 or 15% should be added to the estimated cost to care for various unexpected costs which may arise. The builder will certainly add greatly to his reputation if he builds a cost-plus contract within the cost quoted to the owner. On the other hand, his reputation is considerably damaged if he has to call for considerably more money before the job is finished.

—Builder's Journal.

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More than one private stenog is a living file of all her boss' matrimonial troubles.

Those quickly offended by the blunders of others are slow to admit the blunders of themselves.

Some folks think that a high-brow is one who sticks up his nose. And sometimes we think they are right.

Some employees spend so much time watching the clock that they have to stay after hours to finish their work.

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Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

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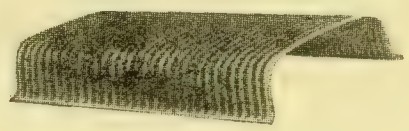
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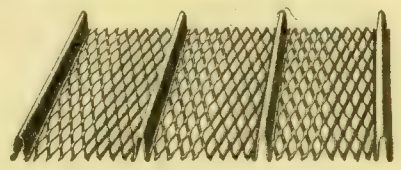
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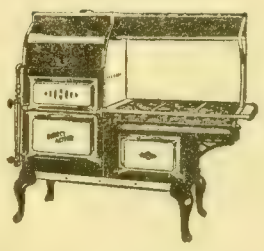
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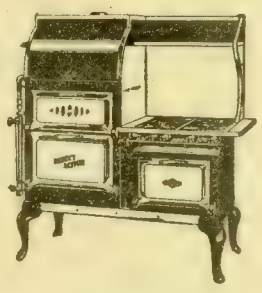
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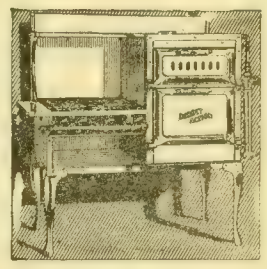


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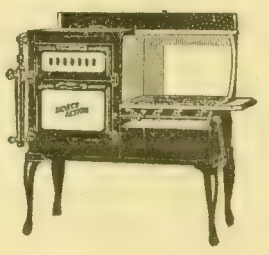
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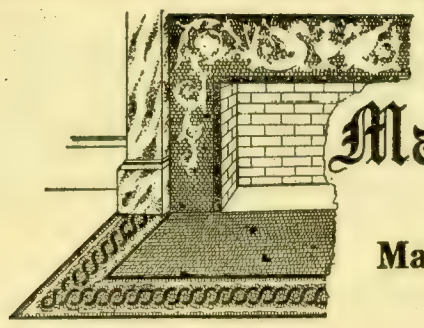
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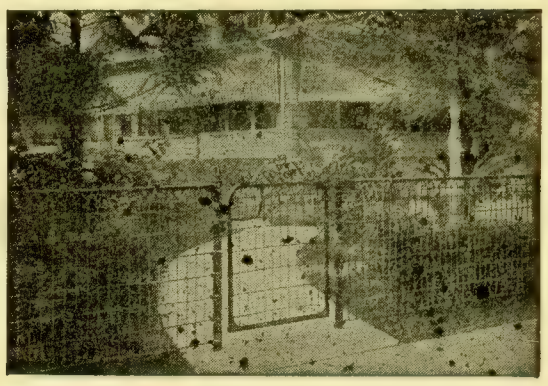
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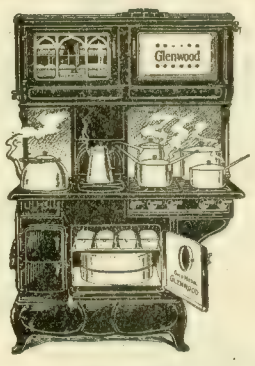
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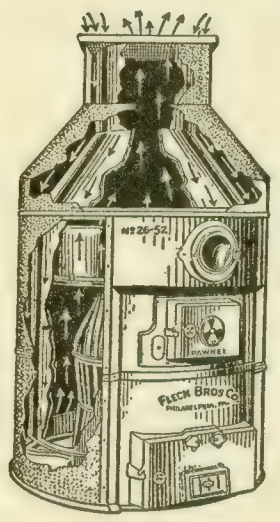


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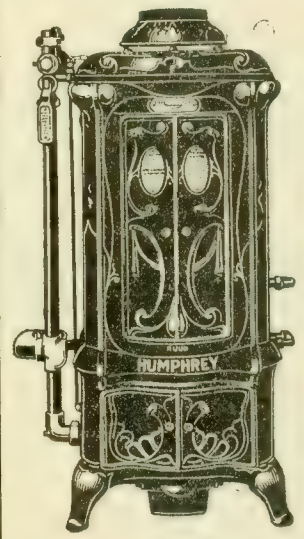
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 37

PHILADELPHIA
September 15, 1920

BUILDERS' GUIDE

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As The Editor Sees It

FRED J. HARTMAN, Secretary, Industrial Board Department of Labor and Industry of Pennsylvania, has sent a letter to Architects and Builders of Pennsylvania asking their co-operation in behalf of a Building Code for Pennsylvania.

A commission designated as the State Building Code Commission spent several years in earnest study and faithful work in attempting to formulate a building code for Pennsylvania. For various reasons it was not adopted by the Legislature. That there is a need for more adequate building regulations in Pennsylvania becomes more apparent each day. As a step towards securing such a code a meeting will be held in Harrisburg on or about October 15, 1920, to talk over the entire situation.

The bill as presented had incorporated within it a provision, to the effect, that separate codes for the several classes of buildings be worked out as standards of the Industrial Board of the Department of Labor and Industry—a provision which perhaps could be developed at this particular time. At the meeting there will be discussions of the advisability of the Industrial Board drafting a code, using as a basis the data already gathered, with the aid of a representative committee of persons interested in the building construction industry.

* * * * * * *

In view of the importance at this period in the development of our country of bringing together every factor in the building and construction field, including especially the employing and working elements, it is felt that the establishment of an organizing committee to convene the newly organized National Congress, somewhat along the lines of the Parliament of the Building Trades in England, is worthy of serious consideration.

The Special Committee appointed at a meeting of the National Building and Construction Congress held in Atlantic City, August 6th, announces the appointment of the Organizing Committee. Among the appointees are three prominent Philadelphians: D. Knickerbacker Boyd, Architect and Structural Standardist, Estey Building; Ernest T. Trigg, President, National Federation of Construction Industries, Drexel Building; and Col. J. R. Wiggins, General Contractor, c/o John R. Wiggins, Inc., Otis Building.

At the meeting, representatives of many elements of the building and construction Industry discussed the advisability of founding a congress for the promotion of the industry by harmonizing existing differences of opinion or establishing new methods of procedure. The action taking at the meeting is embodied in the following preamble and resolution, which was adopted:

WHEREAS, The history of all civilization links periods of prosperity with those of great building and construction activity, and

WHEREAS, the building and construction industry is now facing difficulties which are seriously retarding national progress, and

WHEREAS, this condition is not for the best public interest because of unemployment, congested habitation and insufficient facilities, and

WHEREAS, it is believed that the solution of problems locally or from the standpoint of any single element, without the concurrence of counsel of the other elements, cannot remedy the chaotic conditions now existant.

Now, therefore, be it

RESOLVED, (a) That a thorough study be made of the relations of the various elements and industries, which enter into building and construction activities.

(b) That a committee of representatives of the interested elements meet at Chicago on September 27th, 1920, to convene a congress to provide the ways and means of conducting such a study to the end that the various factors which have retarded necessary building and construction may be eliminated; and

(c) That a building and construction congress be permanently established to give continuity to the nationally beneficial objects which gave it birth.

DRAWING MATERIALS

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SENATE COMMITTEE IS GETTING DOWN TO BUSINESS

Senator Calder Appeals to Shipping Board to Help Relieve Transportation Congestion in the East—Committee Is Studying Availability of Finance for Construction—Tax Exemption Under Certain Conditions is Suggested —Co-operation is Solicited

THE Senate Committee on Reconstruction and Production, appointed pursuant to Senate Resolution No. 350 to inquire into the general building situation throughout the country and report to the Senate on or before December 1, 1920 measures necessary to restore the construction industry to normal activity, has completed its preliminary work of organization.

It is the purpose of the committee to take under advisement and consideration all the factors contributing to the present shortage of housing and industrial construction. It was reported to Senator Calder, chairman of the committee, that there were six thousand freight cars loaded with coal in the vicinity of Norfolk and Newport News, Va., waiting for export. As the most difficult problem confronting the construction interests today is the shortage of transportation, Senator Calder sent the following telegram, addressed to Captain Paul Foley, Director of Operations of the U. S. Shipping Board:

"I am advised that there are several thousand cars of coal in the vicinity of Newport News and Norfolk. Am I correctly informed that there is now in effect a partial embargo on the exportation of coal or a preference for domestic consumption? If so, would it not afford material relief in the present critical fuel situation if the Shipping Board were to assign several tugs and a number of barges for the transportation of this coal to New England? The suggestion is made to me that five tugs and thirty barges would be helpful for this purpose. The shipment of this fuel by water would also release several thousand cars for the transportation of other necessaries, particularly of building materials urgently needed in construction under way for the relief of the present critical housing situation throughout the country. If the facts are as stated, it would seem that the Shipping Board might offer real assistance in this connection and I hope that early consideration might be given to the matter."

Commission Grants Hearing to Industry

At the request of Senator Calder, the Interstate Commerce Commission has granted hearings to representatives of the building industry in order that they might present to the Commission the inevitable results of a continuance in operation of the recent car service orders which amount to an embargo on the transportation of building materials. In New York City for example, where building, in order to afford relief to the housing shortage during the coming winer, must be started during the next three months, activity in the building line is seriously hampered on account of the uncertainties of transportation. Hon. Frank Mann, Tenement House Commissioner of New York City, has appeared before the I. C. C. and given them facts as to the critical and almost desperate situation in which New York City now finds itself in getting building materals to erect homes to house its growing population.

Suggests Tax Exemptions Under Certain Conditions

The Senate Committee on Reconstruction is also giving consideration to the lack of adequate financial facilities for the construction industry. It is aware of the fact that on account of the high rates of interest prevailing, the builder is now unable to bid against the speculator in the money market. Senator Calder has stated that a valuable suggestion has been offered to the committee in a provision of the new shipping law. Senator Calder, who aided in framing this legislation, said that under the new law, all profits in the operation of American ships in the foreign trade are exempt from federal taxation, provided the profits are invested in the building of new ships in American shipyards, and provided the owners put $2 of new money into new ships for every $1 of exempted taxation.

Senator Calder is of the opinion that this feature of the shipping act might be applied to new building construction and that profits from construction might be exempted from federal taxation if the money is invested in new construction and the builder puts twice as much money into such new construction as the amount exempted from taxation. This phase of the matter is under consideration by the committee and the practicability of the provision of the Shipping Act being applied to construction of homes, will be determined later.

Co-Operation is Invited

The Senate Committee on Reconstruction earnestly invites the co-operation of all public bodies which have housing matters under consideration, and it will also be glad to receive communications from individuals or concerns who wish to present information or suggestions which will be of assistance to the Committee in its investigation.

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Advance Construction News

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Shelter Building, Front and Allen streets, Philadelphia. Architect, John F. B. Sinkler, City Architect, City Hall, Philadelphia. Owner, City of Philadelphia, Bureau of Recreation, 587 City Hall, Philadelphia. Brick, 1 story, 14x20 feet, slate roof, cement floors, stone foundations, hot water heating, electric lighting, plumbing. Lowest bids submitted: F. A. Foster Co., 43 South Seventeenth street, Philadelphia, $6,696; George Dobbin, Forty-first and Chester avenue, Philadelphia, $6,880.

Residence (alts.), New Store and Apartment Building, Forty-ninth and Florence avenue, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, M. Kremer, 4830 Baltimore avenue, Philadelphia. Brick, terra cotta and steel, 2 stories, 41x27 feet, stone foundations, slag roof, hot water heat, electric light, yellow pine floors, tile work, iron work. Bond. Architects taking bids due September 17th. Thomas C. Trafford, 1613 Sansom street; Graham & Wells, 3649 Filbert street, and Max Dolinky, 1308 Pacific avenue, Atlantic City, N. J., are figuring.

Foundations for Central Library, Nineteenth to Twentieth, Parkway, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, City of Philadelphia, care of Librarian John Ashhurst, Thirteenth and Locust streets, Philadelphia. Concrete, 344x232 feet. Architect has received bids.

Garage, 1707 Vine street, Philadelphia. Architect, private plans. Owners, Fleischmann Yeast Co., 1221 Race street, Philadelphia. Brick and concrete, 3 stories, 36x124 feet, slag roof, cement floors, stone foundations, steam heat, electric light, rolled steel sash, hollow metal skylights, rolling steel doors, fire doors, (1) elevator. Owners have received bids.

Residence (alts. and add.), 5847 Woodbine avenue, Philadelphia. Architects, Hoffman-Henon, Inc., 130 South Fifteenth street, Philadelphia. Owner, David J. Smyth, on premises. Stone, 3 and 1 story add., 16x24 feet, slate roof, pine and oak floors, stone foundations, heating and lighting extension, plumbing. Architects taking bids due September 16th. Pierce-Henon, Inc., Bulletin Building, Philadelphia, is figuring.

Residence (alts.), 5003 Florence avenue, Philadelphia. Architect, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, George E. Battersby, on premises. Carpentry, mill work, hot water heat, electric work, painting, plastering, woodoleum floors. Architects taking bids due as soon as possible. Pierce-Henon, Inc., Bulletin Building, and P. M. Sax, Franklin Trust Building, Philadelphia, are figuring.

Garage, Sixty-ninth avenue, West of Tenth street, Oak Lane, Philadelphia, $1,200. Architect, private plans. Owner, G. S. Smith, on premises. Stone, 1 story, 23x23 feet, slag roof, cement floor. Owner will build.

Garage, Northeast Corner McKean and Meadow streets, Philadelphia, $2,000. Architect, private plans. Owners, Niles, Bemont & Pond Co., on premises. Steel, brick and hollow tile, 1 story, 23x40 feet. Owners will build.

Store (alts. and add.), Twenty-fourth and Oakford streets, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, A. Ottenbacker, Twenty-fourth and Oakford streets, Philadelphia. Brick, 3rd story add., slag roof, hot water heating, electric lighting, plumbing. Architect will take bids in a few days.

Supplies, Torresdale and Lardner's Point, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of Water, care of Frank H. Caven, Director, Room 788, City Hall. Furnishing and altering pipe material, fire brick, shafting material, structural steel and steel plates. Owners taking bids due September 21st at Room 216, City Hall, Philadelphia.

Garage and Residence (alts.), 801 Vernon road, Philadelphia, $4,000. Architect, private plans. Owner, Mauran Dolman Co., 105 Liberty Building, Philadelphia. General alterations and additions. Owners will build.

Residence (alts.), 5031 Pulaski avenue, Philadelphia. Architect, Ellery K. Taylor, 1627 Sansom street, Philadelphia. Owner, B. F. Everett, on premises. New partitions, cement work, electric lighting, general interior alterations. Architect will be ready for bids in ten days.

Ice Storage Building (repairing fire damage), 2431 North Bodine street. Architect, private plans. Owner, H. Brocklehurst, 512 West Norris street, Philadelphia. New tin roof. Owner will build.

Lower Power House (extension), Richmond and Norris streets, Philadelphia. Architect, private plans. Owners, William Cramp Ship & Engine Building Co., Richmond and Norris streets, Philadelphia. Brick, steel and concrete. Owners have received bids.

Hospital (add.), Broad and Mifflin streets, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Agnes' Hospital, Broad and Mifflin streets, Philadelphia. Brick, fireproof, limestone trimmings, 6 stories, 137x32 feet, (2) wings, 72x30 feet, stone founadtions, tile roof, cement floors, steam heat, electric light, tile and marble-work, hollow tile, metal lath, elevators. Working plans in progress.

Manufacturing Building, 3936-40 Frankford avenue, Philadelphia. Architect, Gabriel B. Roth, 1629 Chestnut street, Philadelphia. Owner, Fidelity Machine & Manufacturing Co., on premises. Brick, 2 stories. Preliminary sketches drawn. Too early for detail.

Church, Sanger and Hasbrook streets, Philadelphia, $30,000. Architect, D. E. Sutton, 721 Walnut street, Philadelphia. Owners, Crescentville Church, on premises. Brick and steel, 1 story, 54x54 feet, slate roof, pine floors, metal lath, stone foundations, steam heating, electric lighting, iron work. Architect taking bids, due as soon as possible. F. I. Wintz, 1618 North Twenty-seventh street; A. W. Sherriff, 608 Chestnut street; Rush Bros., 1016 Harrison street, Frankford, Philadelphia, and Fesmire Bros., Bethayres, Pa., are figuring.

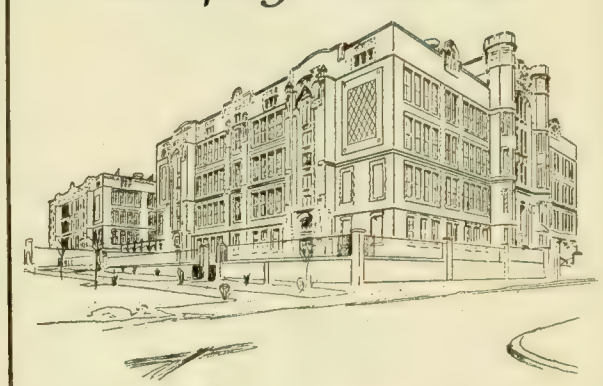
Store and Apartments (alts. and add.) and Garages (2), southwest corner of Nineteenth and Ellsworth streets, Philadelphia. Architect, C. Henry Wilson, 2nd, 1928 South College avenue, Philadelphia. Owner, Fielding A. Ford, 1134 South Nineteenth street, Philadelphia. Brick, 3 stories, 18x71 feet, slag roof, hardwood and cement floors, metal lath, stone foundations, hot water heating, electric lighting, tile work. Plans in progress. Owner will be ready for bids in one month.

Store and Dance Hall, Broad and Erie avenue, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, Paul Rynck, 3537 Germantown avenue, Philadelphia. Brick and steel, 2 stories, 60x100 feet, stone foundations, slag roof, yellow pine and maple floors, hot water heat, electric light, tile work, iron work. Architect will be ready for bids in about one week.

Factory, Philadelphia and Reading R. R., near Tabor street, Philadelphia. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Fox Motor Co., A. H. Fox, Brick and reinforced concrete. Preliminary plans in progress.

Garages (4), 5720-22, 5732-34 North Fairhill street, $8,000. Architect, private plans. Own-

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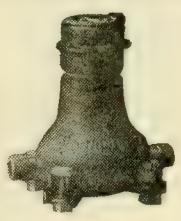
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er, Charles G. Erny, 731 Rockland street, Philadelphia. Brick, 1 story, 10 feet 8 inches x17 feet, slag roof, electric light, cement floors. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building (alts. and add.), Ninth and Walnut streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Abe Kolsky & Co., 730 South Fifth street, Philadelphia. New brick front, carpentry, mill work, general interior alterations. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

Office (alts.), 1624 Spruce street, Philadelphia. Architect, private plans. Owner, Albert W. Strecker, on premises. General interior alterations, electric lighting. Contract awarded to A. W. Sherriff, Witherspoon Building, Philadelphia.

Shop (alts. and add.), Northwest Corner Sixth and Berks streets, $5,000. Architect, private plans. Owner, Taylor Heald, 310-12 North Eleventh street, Philadelphia. Brick, second story add., 25x36 feet, slag roof, steam heat, electric light, pine floors. Contract awarded to William E. Buckley, 2602 North Fairhill street, Philadelphia.

Fertilizer Building (alts.-, Southwest Corner Thirty-seventh and Tasker streets, $4,900. Architect, private plans. Owner, B. & O. R. R. Co., Baltimore, Md. Fire repairs, ready roofing, galvanized iron skylights, carpentry, mill work. Contract awarded to John Schnable, 707 Denckla Building, Philadelphia.

Garage (add.), 518 East Cambria street, Philadelphia, $2,000. Architect, private plans. Owner, William Smith, on premises. Brick, 1 story, 34x16 feet, slag roof, electric light, cement floors, also open shelter shed, 18x22 feet. Contract awarded to E. J. Gilbert, 3345 D street, Philadelphia.

Residence, East side Lawndale avenue, South of Cottman street, $4,500. Architect, private plans. Owner, Stephen Szuck, 1040 North Marshall street, Philadelphia. Frame, 1 story, 30x30 feet, shingle roof, pipeless heater, pine floors. Contract awarded to A. C. Kurtz, 1322 North Seventh street, Philadelphia.

Garage, Eighteenth and Indiana avenue, Philadelphia. Architect, private plans. Owners, Charles H. White & Sons, Eighteenth and Indiana avenue, Philadelphia. Brick, 1 story, 42x40 feet, stone foundations, slag roof, cement floors, steam heating, electric lighting. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Warehouse, 1736 North Uber street, Philadelphia, $3,000. Architect, private plans. Owners, Harry J. Sensenbacker, 1908 West College avenue, Philadelphia. Brick and steel, 1 story, 18x77 feet 10 inches, slag roof, cement floors. Contract awarded to M. A. Greene, 1607 North Thirteenth street, Philadelphia.

Garage, 1614 Ingersoll street, Philadelphia, $4,835. Architect, private plans. Owner, Clarton Realty Co., Land Title Building, Philadelphia. Brick, 1 story, 38x34 feet, slag roof, cement floors. Contract awarded to Harry Sadjian, 1585 North Fifty-second street, Philadelphia.

Manufacturing Building, Southeast Corner Front and Shunk streets, Philadelphia, $75,000. Architect, William Higginson, 18 East Forty-first street, New York City. Owners, American Mfg. Co., Brooklyn, N. Y. Brick, 2 stories, 153½x160½ feet, slag roof, concrete floors, concrete foundations, steam heat, electric lighting, rolled steel sash, fire doors, safety treads, iron work. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Warehouse and Office, Southeast Corner Beach and Columbia avenue, 56,000. Architect, private plans. Owner, Columbia Avenue Pier Co., on premises. Concrete and brick, 2 stories, 42x176 feet, slag roof, steam heat, electric light, yellow pine and maple floors, metal lath, iron work, rolled steel doors, fire doors. Contract awarded to George Kessler Cont. Co., Drexel Building.

Storage Building and (3) Shops, Southeast Corner Fox and Robinson streets, $48,000. Architect, private plans. Owners, Vim Motor Truck Co., Twenty-third and Market streets, Philadelphia. Steel and corrugated iron, 1 story, 106x80 feet, 144x50 feet, 25x60 feet,

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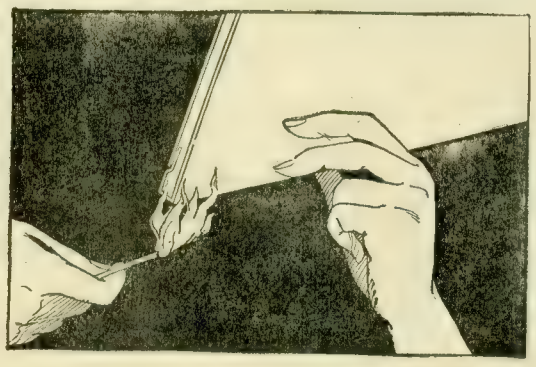
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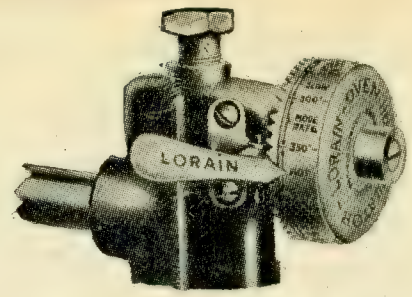
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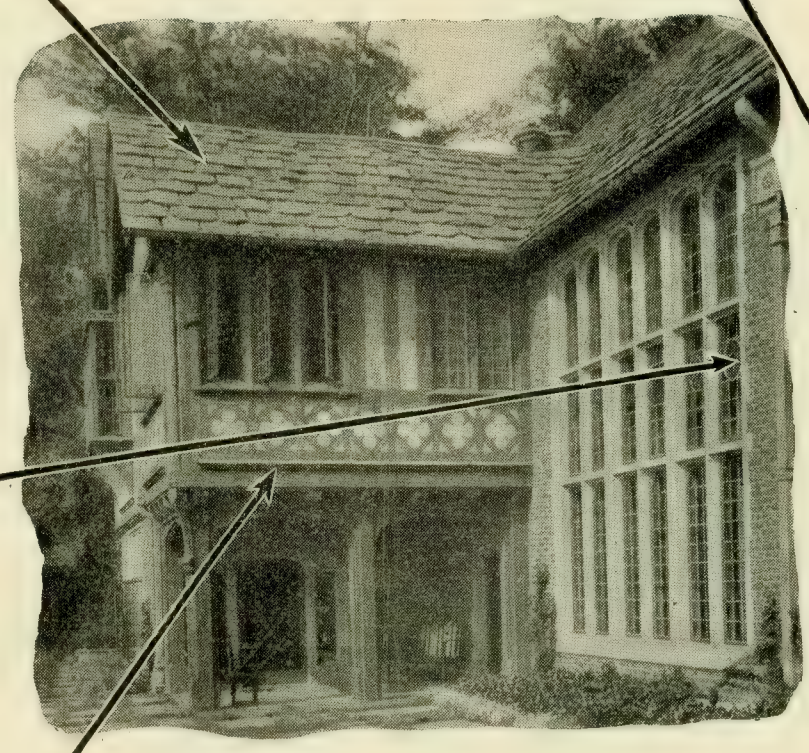
Grading, Planti

Rock Gardens, F

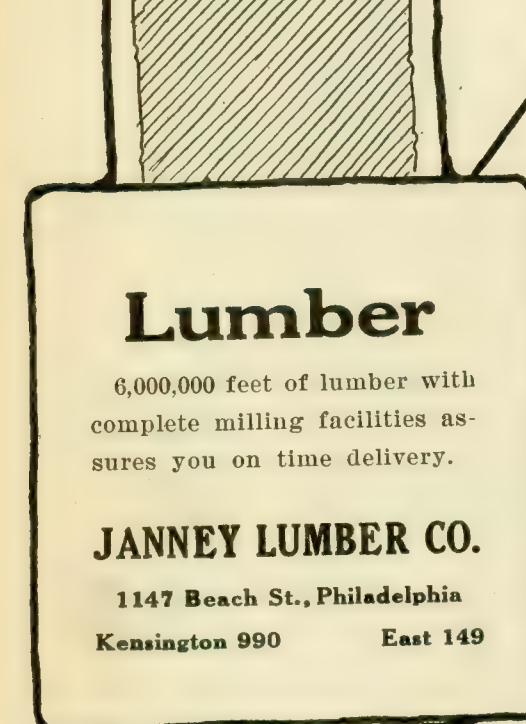
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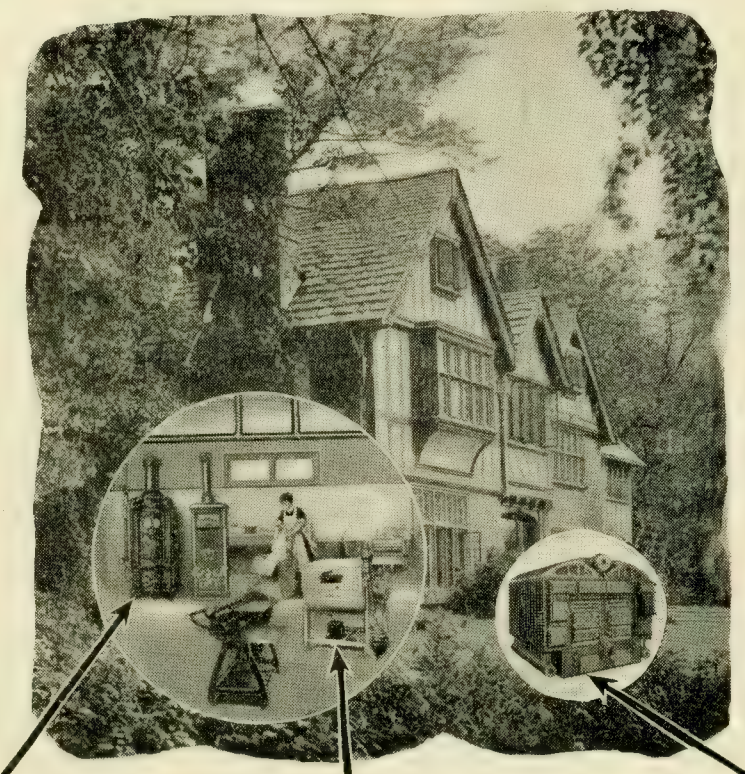
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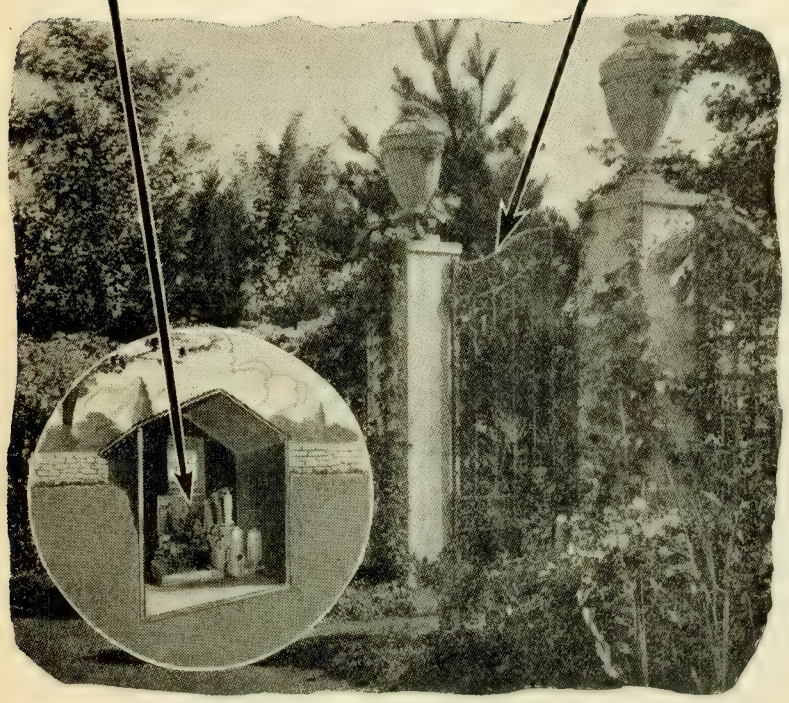
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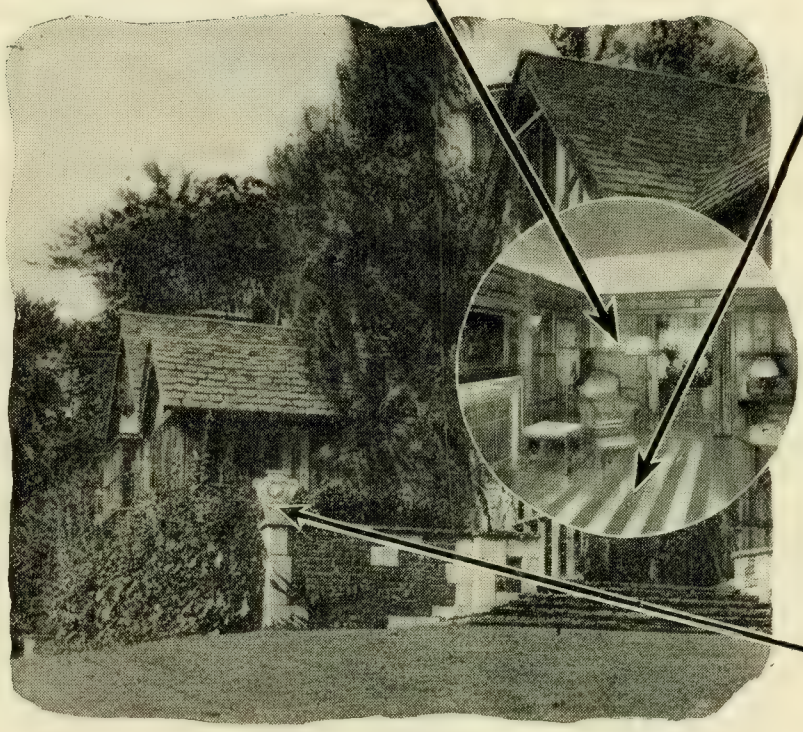
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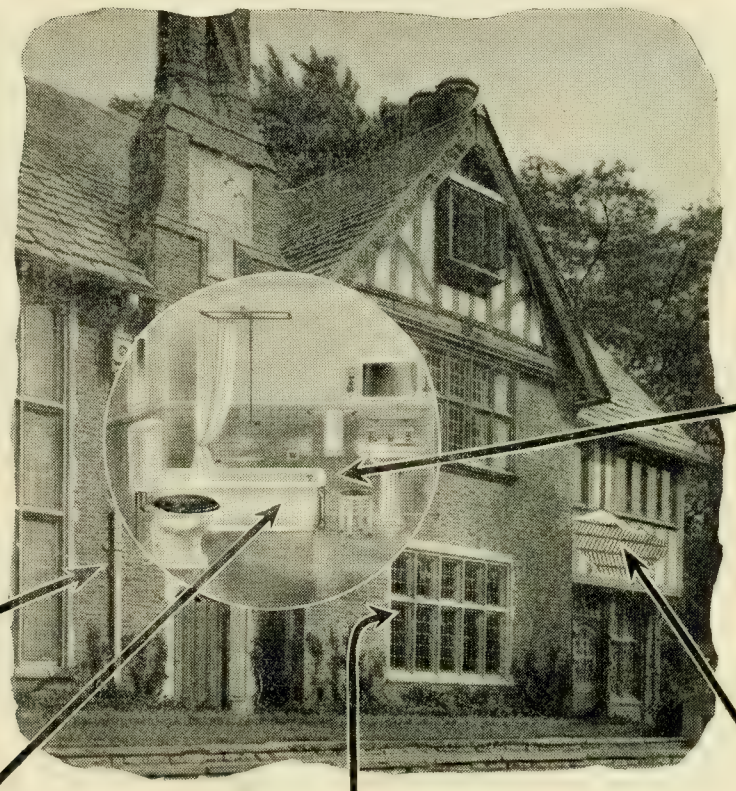
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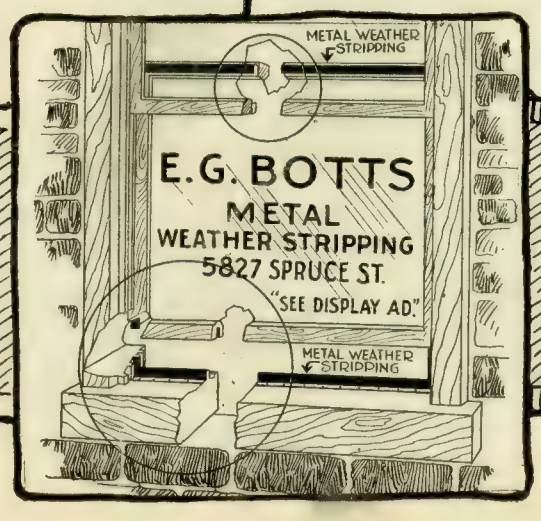
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50x100 feet, concrete floors, rolled steel sash and skylights. Contract awarded to Truscon Steel Co., 810 Commonwealth Building.

Store and Office (alts.), Ninth and Walnut streets, Philadelphia, $8,000. Architect, private plans. Owner, Bernstein & Amellow, 522 Market street, Philadelphia. Carpentry, mill work, painting, glazing, iron work. Contract awarded to Henry Platt, 311 Fernon street, Philadelphia.

Bungalow, Southeast Corner Pratt and Edmond streets, Philadelphia, $5,000. Architect, private plans. Owner, Elizabeth Coulter, 2077 Bridge street, Philadelphia. Stone, 2½ stories, irregular size, slate roof, hot water heat, electric light, yellow pine floors. Contract awarded to Walter C. Johnson, 4601 Ella street, Philadelphia.

Apartment (alts.), 122 West Manheim street, Philadelphia, $5,000. Architect, private plans. Owner, William Beylin, 309 West End Trust Building, Philadelphia. Carpentry, mill work, painting, glazing, hardware, iron work, plumbing. Contract awarded to A. L. Schaeer, 309 West End Trust Building.

Building (alts.), 512 South Fifth street, Philadelphia. Architect, Frank E. Hahn, Denckla Building, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Interior alterations, plastering, metal lath, carpentry, mill work, composition floors, tile work, painting, plumbing, electric work, heating repairs. Contract awarded to George H. Evans Co., 45 North Thirteenth street, Philadelphia.

Office Building, 50 South Third street, Philadelphia, $8,700. Architects, Dreher, Churchman, Paul & Ford, 1424 Walnut street. Owners, James Gallagher, Inc., 17 South Third street, Philadelphia. Brick, 2 stories, 26x14 feet, stone foundations, slate roof, composition floors, warm air heat, electric light, metal lath, iron work. Contract awarded to M. J. Benamy, 5758 North Fifth street, Philadelphia.

Warehouse, Northwest Corner Seventy-second and Powers lane, $11,000. Architect, private plans. Owner, S. H. Collom, Northeast Corner Broad and Race streets, Philadelphia. Brick, 1 story, 60x74 feet, slag roof, electric light, cement floors. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

Warehouse, Northeast Corner Ruth and Atlantic streets, Philadelphia, $3,900. Architect, private plans. Owner, Cambridge Worsted Mills, on premises. Corrugated iron, 1 story, 24x60 feet. Contract awarded to William Steele & Sons Co., 1600 Parkway, Philadelphia.

Storage Building and (3) Shops, Southeast Corner Fox and Robinson streets, Philadelphia, $50,000. Architect, private plans. Owners, Vim Motor Truck Co., Twenty-third and Market streets, Philadelphia. Excavating, grading, concrete foundations and cement floors. Contract awarded to Henry E. Baton, 1713 Sansom street, Philadelphia.

Rooming House (alts.), 226 West Coulter street, $5,000. Architect, private plans. Owner, Ervin Tubernishez, on premises. General alterations, electric lighting. Contract awarded to F. J. Trent, 2041 Master street, Philadelphia.

Varnish Building, Grove and Wharton sts., Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Rinald Bros., 1142 Hancock street, Philadelphia. Brick and steel, 2 stories, 46x50 feet, slag roof, pine floors, roof ventilators, iron work, rolled steel doors, hollow metal skylight, stone foundations, bond (elevator, heating, electric work and plumbing reserved). Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia.

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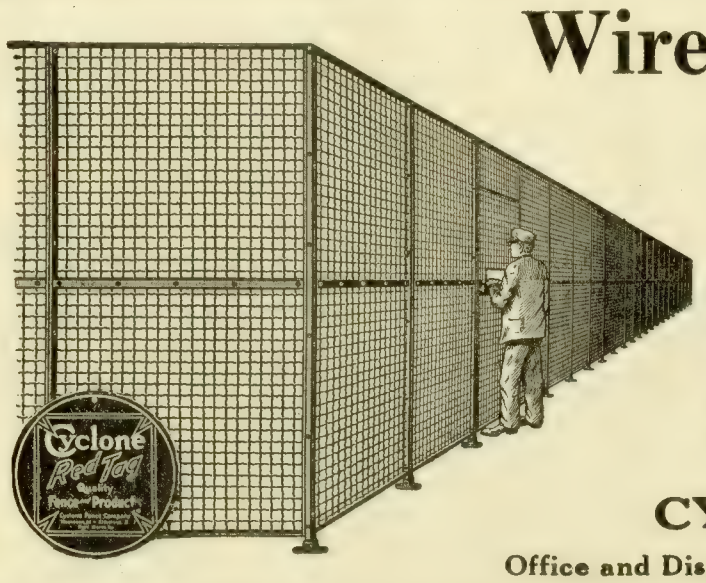
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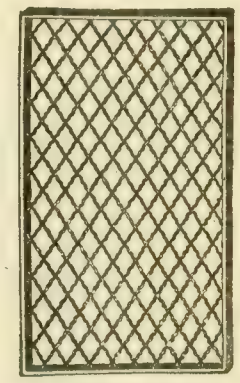


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PENNSYLVANIA
Construction News

Garage, Reading, Pa. Architect, private plans. Owner, Carpenter & Steel Co., Reading, Pa. Frame and steel, 1 story, 40x100 feet, slag roof, concrete floors, electric light. Owners taking bids due September 17th. Beard Const. Co. and D. Hunter, Reading, Pa., are figuring.

Warehouse, Reading, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owners, Carpenter & Steel Co., Reading, Pa. Brick, 1 story, 25x108 feet, stone foundations, composition roof, concrete floors, electric light, metal lath, ornamental lath, hollow metal sash and skylights, waterproofing, dampproofing. Architect has received bids.

Y. W. C. A., Eighth and Washington streets, Reading, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owners, Y. W. C. A., care of architect. Brick, stone and steel, 3 stories, 115x120 feet, stone foundations, composition roof and floors, electric light, tile and marble work, rolled steel sash, fireproof doors, waterproofing, swimming pool. Architect has received bids.

Residence and Store, Reading Heights, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Milton B. Heffner, 433 North Ninth street, Reading, Pa. Frame and stucco, 2 stories, 24x48 feet, concrete foundations, composition roof, pine poors, hot water heat, electric light, tile work, metal lath, plate glass. Plans in progress.

Factory (add.), Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owners, Eisenlohr Cigar Co., Reading, Pa. Semi-mill construction, 4 stories, 65x39 feet, concrete foundations, composition roof, wood floors, steam heat, electric light, steel beams and roof trusses, fire doors and towers. Architect ready for bids.

Residence (alts.), Bryn Mawr, Pa. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Walter H. Thompson, Bryn Mawr, Pa. Brick work, steel and iron work, carpentry, painting, glazing, hardware, canvas roof, plastering, tile work, electric work. Architects have received bids.

Garage, Merion, Pa. Architects, Hance, Neely & Mitchell, 2126 Pine street, Philadelphia. Owner, William Hexamer, 1619 Chestnut street, Philadelphia. Brick, stone and stucco, 2 stories, 36x26 feet, slate roof, cement and pine floors, metal lath, plastering, stone foundations, hot water heat, electric lighting. Plans in progress. Architects will take bids in ten days.

Vocational School, Avondale, Pa. Architects, Ritter & Shay, North American Building. Philadelphia. Owners, Board of Education, Boroughs of Avondale, West Grove, Loudon Grove and New Garden, Pa. Brick, 2 stories, slag roof, electric lighting. Plans in progress.

Station, East Greenville, Pa. Architect, Otto Herold, Reading Terminal, Philadelphia. Owner, Philadelphia & Reading Ry. Co., Twelfth and Market streets, Philadelphia. Frame, 1 story, 18x80 feet, prepared roof, pine floors. Plans in progress.

Residence, Ridley Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street,



Painting History!

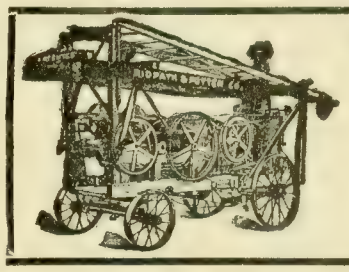
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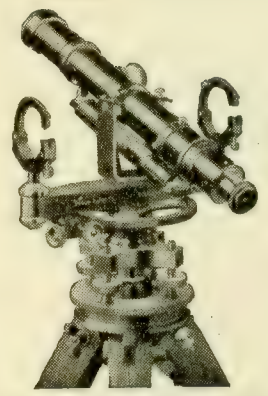


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Philadelphia. Owner, T. P. Ward, Delaware and Partridge avenues, Ridley Park, Pa. Frame, 2 stories, 21x42 feet, stone foundations, hot water heating, electric lighting, tile work, hardwood floors, shingle roof. Plans about completed. Architects will be ready for bids in a week.

Residence, Steelton, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, J. P. Croll, 434 Pine street, Harrisburg, Pa. Frame, 2 stories, 28x30 feet, slate roof, hardwood floors, steam heating, electric lighting. Owner will build.

Undertaker's Establishment and Apartment, New Cumberland, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, M. A. Hoff, on premises. Brick, 3 stories, 75x40 feet, stone foundations, composition roof, pine floors, vapor heat, electric light, metal lath, reinforced concrete. Plans in progress.

Bank, Littlestown, Pa., $65,000. Architect, Mr. Stair, Spooner Building, Harrisburg, Pa. Owner, care of architect. Marble, 1 story, 37x72 feet, stone foundations, composition roof, marble tile and hardwood floors, vapor heat, electric light, tile and marble work, cast iron window guards, bank fixtures. Plans in progress.

Offices (alts.), Second and Locust streets, Harrisburg, Pa. Architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owner's name withheld. Interior and exterior alterations, hardwood floors. Plans in progress.

Warehouse, York, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, L. P. Gross, York, Pa. Brick, fireproof, 1 story, 33x54 feet, stone foundations, concrete and slag roof, concrete floors, electric light. Plans completed. Architect will take bids in a few days.

Church, Twenty-first and Derry streets, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Epworth M. E. Church, care of Rev. Knox, on premises. Stone, 1 story and basement, 73x73 feet, stone foundations, slate roof, pine floors, steam heat, electric light, tile work. Architect will take bids next week.

Memorial Bridge, Harrisburg, Pa. Architect, A. W. Brunner, 101 Park avenue, New York. Engineer, J. E. Greiner, Fidelity Building, Baltimore, Md. Owners, State of Pennsylvania, Department of Public Grounds and Buildings, care of L. W. Mitchell, secretary, and T. W. Templeton, superintendent, Harrisburg, Pa. Granite, stone and concrete, concrete foundations, 80 feet wide, 2,687 feet long, waterproofing, iron work, electric lighting. Lowest bid submitted by Central Const. Co., Harrisburg, Pa.

Service Building, Lancaster, Pa. Architect, M. R. Evans, 10½ Orange street, Lancaster, Pa. Owners, Lancaster General Hospital, care of M. Brightener, on premises. Concrete and steel, fireproof, 2 stories, 48x95 feet, stone foundations, concrete roof and floors, electric light, kitchen equipment, refrigeration plant. Plans in progress.

Residence (alts. and add.), Narcissa, Pa. Architect, Wesley Mullin, Maple Glen, Pa. Owner, William Finley Brown, care of architect. Hollow tile and stucco, 3 stories, 39x35 feet, stone foundations, shingle roof, oak and yellow pine floors, hot water heat, electric light, tile work. Architect taking bids, due September 16th. Stokes Bros., 6723 Musgrave street, Philadelphia, are figuring.

Pennsylvania Contracts Awarded

Garage and Chauffeur's Quarters, Milton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, H. W. Chamberlain, Milton, Pa. Frame, 2 stories, 19x24 feet, shingle clapboard roof, concrete foundations, electric lighting, plumbing, stove. Contract awarded to Moore Const. Co., Milton, Pa.

Warehouse, No. 26, Reading, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owners, Carpenter & Steel Co., Reading, Pa. Brick, 1 story, 30x100 feet, composition roof, electric light, metal lath. Contract awarded to Beard Const. Co., Reading, Pa.

Residence (alts. and add.), 316 Maple avenue, Swarthmore, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Albert Price, Tenth and Morton streets, Chester, Pa. Stone and stucco, 2½ stories, general alterations, heating, plumbing and electric lighting. Contract awarded to A. L. Flounders, Media, Pa.

Residence (alts. and add.), Bryn Mawr, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, Paxson Deeter, Land Title Building, Philadelphia. General alterations and additions to windows and mantels, mill work, tile work. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Central Exchange Building (alts.), Bethlehem, Pa. Architect, private plans. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. General interior alterations, carpentry, mill work. Contract awarded to H. E. Stroudt, 424 Avenue E, Bethlehem, Pa.

Bath House, Harrisburg, Pa., $40,000. Ar-

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chitect, W. H. Manning, Boston, Mass. Associate architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owners, City of Harrisburg, care of City Commissioner Gross, Calder Building, Harrisburg, Pa. Reinforced concrete, 1 story, 160x32 feet, Spanish tile roof, cement floors, electric lighting, plumbing. Contract awarded to August Wildman, Harrisburg, Pa.

Bakery, Seneca street, Harrisburg, Pa., $20,000. Architect, G. H. Grove, 213 Walnut st., Harrisburg, Pa. Owner, David Hocker, on premises. Brick, 1 story, 70x70 feet, concrete foundations, slag roof, wood floors, steam heating, electric lighting, six roof ventilators. Contract awarded to John Hare, Harrisburg, Pa.

Residence, Lancaster, Pa., $60,000. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Smith, Lancaster, Pa. Concrete block and stucco, 2½ stories, 90x109 feet, tile roof, hardwood and tile floors, steam heat, electric light, tile and marble work. Plans in progress. Contract awarded to Walter Zook, Harrisburg, Pa.

Residence, Parkside avenue, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Harrisburg, Pa. Owner, Mr. M. Swarr, Parkside avenue, Lancaster, Pa. Brick and tile, 2½ stories, 30x40 feet, stone foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to D. S. Warfel, 908 East Orange street, Lancaster, Pa.

School, Manheim Township, Lancaster County, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Manheim Township School Board, care of Elmer Espenshade, Lancaster, Pa., 1024 North Duke st. Brick, 1 story, 77x142½ feet, concrete foundations, slag roof, hardwood floors, hot air heat, electric light, tile and marble work, hollow metal skylights, roof ventilators. Contract awarded to D. S. Warfel, Lancaster, Pa.

Residence (alts.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Russel Clark, East Orange street, Lancaster, Pa. Interior and exterior alterations, slate roof, hardwood floors, hot water heat, tile and marble work. Contract awarded to D. S. Warfel, Lancaster, Pa.

Library Building, Collegeville, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Ursinus College, Collegeville, Pa. Brick, 2 stories, 104x36 feet, slate and slag roof, oak floors, iron work, fire doors, marble work, steam heat, elecric light, rolled steel skylights. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

New Jersey Construction News

Home (add.), Jamesburg, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, State Home for Boys, care of L. L. Jackson, on premises. Brick, concrete, 2 stories, 24x22 feet, concrete foundations, slate roof, composition floors, heating extension, electric lighting, hollow metal skylights, hospital equipment. Architect ready for bids due September 27th.

School, Gibbstown, N. J., $100,000. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owner, Board of Education, care of J. W. Campbell, president, Gibbstown, N. J. Stone, 2 stories, 12 class rooms, stone foundations ,asphalt shingle roof, hardwood floors, unit system heating, electric lighting, hollow metal skylights, roof ventilators, school equipment. Plans in progress.

Church, Swedesboro avenue and Pine street, Paulsboro, N. J. Architect, C. Henry Wilson, d, 1928 South College avenue, Philadelphia. Owners, Second Baptist Church, care of Rev. C. M. Emry, 907 Maple Terrace, Darby, Pa. Cement block, 1 story and basement, 36x70 feet, concrete foundations, asphalt slate roof, pine floors, pipeless heater, electric lighting. Architect will be ready for bids in one week.

Club House, Camden, N. J. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner's name withheld. Brick, 40x100 feet, slag roof, electric lighting. Plans in progress.

New Jersey Contracts Awarded

Apartment, Mill street, Trenton, N. J., $5,000. Architect, private plans. Owner, David Rudenberg, 29 Market street, Trenton, N. J. Brick, 2 stories, 55x20 feet, stone foundations, slag roof, pine floors, electric lighting. Contract awarded to R. P. Martinet, Trenton, N. J.

School (alts.), Wrightstown, N. J., $6,000. Architect, H .A. Hill, Broad Street Bank Building, Trenton, N. J. Owner, School Board of New Hanover, Edward L. Davis, president, Wrightstown, N. J. General interior work. Contract awarded to E. W. Esham, Mt. Holly, N. J.

School, Cookstown, N. J., $13,500. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owner, School Board of New Hanover, Edward L. Davis, president, Wrightstown, N. J. Frame, 1 story, 75x40 feet, shingle roof, maple floors, electric lighting. Contract awarded to E. W. Esham, Mt. Holly, N. J.

Church, Van Hook and Kossuth streets, Camden, N. J. Architect, C. Henry Wilson, 2nd, 1928 South College avenue, Philadelphia. Owners, Mt. Olive C. M. E. Church, care of Rev. George H. Peede, 302 North Eleventh street, Camden, N. J. Concrete block, 1 story, 36x75 feet, asphalt shingle roof, pine floors, metal lath, roof ventilators, concrete foundations, pipeless heater, electric lighting, stained glass, church furniture. Contraot awarded to Horace J. Bryant, Lawnside, N. J.

Miscellaneous Construction News

Hospital, Sparrows Point, Md. Architect, Joseph Evans Sperry, Calvert Building, Baltimore, Md. Owner, Bethlehem Steel Corp., Sparrows Point, Md. Brick, steel and terra cotta, 2½ stories and basement, 112x42 feet, (3) wings, 95x28 feet, 95x28 feet and 44x42 feet, slag and slate roof, cement and pine floors, metal lath, wire window guards, waterproofing and dampproofing, iron work, fire, kalamein and hollow metal doors, rolled steel sash, tile, marble and terrazzo work, stone foundations (heating and electric lighting reserved). Owners taking bids due September 21st. Irwin & Leighton, 126 North Twelfth street, and Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

Theatre, Store and Apartments, 1317 Pennsylvania avenue, Baltimore, Md. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Douglas Amusement Co., Baltimore, Md. Brick, steel, stone and re-



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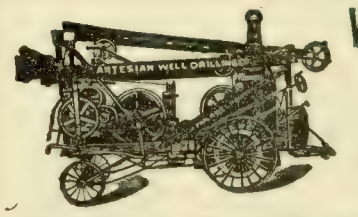
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inforced concrete, 4 stories, 157x70 feet, asbestos and asphalt roof, pine floors, hollow tile, metal lath, concrete and stone foundations, steam heat, electric light, tile and marble work, hollow metal skylights, fire doors, iron stairs, iron work. Architects taking revised bids due September 20th. John R. Wiggns, Otis Building, and Mackle-McClelland Const. Co., Drexel Building, Philadelphia; Charles Stockhausen, Price Const. Co., Consolidated Eng. Co. and Singer Pentz Co., all of Baltimore, Md., are figuring.

Residence and Garage, Lewes, Del. Architect, Edgar A. Wightman, 1213 Filberts street, Philadelphia. Owner, Roland Marsh, Lewes, Del. Frame and stucco, 2½ stories, 24x35 feet, garage, 1½ stories, 22x22 feet, shingle roof, brick foundations, cement, pine and oak floors, hot air heating, electric lighting, tile work. Plans in progress.

Club (alts. and add.), Kennebuckport, Me. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Arundel Golf Club, care of Mr. Norton, Brakewater Court, Kennebuckport, Me. Frame, irregular size, porches, lockers, hardwood floors, etc. Owners are taking bids.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Sept. 7, 1920. Sealed Proposals will be received at this office until 3 P. M., Sept. 30, 1920, and then opened, for remodeling (except lift) the U. S. Post Office, Wilmington, N. C., in accordance with the specifications and drawings mentioned therein, copies of which may be had at this office or at the office of the Custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Sept. 7, 1920. Sealed Proposals will be opened in this office at 3 P. M., Sept. 30, 1920, for the installation complete of an electric freight elevator in the United States Post Office at Wilmington, N. C., in accordance with the drawing and specification, copies of which may be had at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

LABOR'S RESPONSIBILITY for construction costs recently came in for investigation by the grand jury in Cuyahoga County, Ohio. The grand jury probed into construction conditions in Cleveland and, according to *Building Industry,* a magazine devoted to construction matters in the state of Ohio, the grand jury report contained the following statements:

"We would be remiss in our duty did we not point to a lamentable condition which no doubt has injured the very group which created it as much, if not more so, than the public generally. We refer to the present tendency upon the part of mechanics, artisans and laborers of all trades to do less than a full day's work. The testimony adduced before us indicates conclusively that it requires approximately twice as long with the same number of men to erect a house to-day as it did in pre-war times. Impartial tests show that it takes twice as many carpenter hours to do the carpenter work on a building as it did in pre-war times. Bricklayers lay less than half the work in the same time that they did five years ago. Manufacturing firms which make and sell building materials prove by their records that, while wages have gone up two hundred per cent in some instances, labor cost have gone up four hundred per cent, indicating that their employes are getting double pay for one-half the work, as compared with the period before the war."

Building Industry in commenting on the findings of the jury, says that prior to its report the Cleveland Builders' Exchange had made an investigation and developed a similiar conclusion. It states, also, that officials of the Building Trades Council in Cleveland protest that the statement is an exaggeration of the facts, contending that building trades labor has decreased no more than 5 per cent in efficiency.

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MODERN TRANSFORMATIOINS—ARCHITECTURAL POSSIBILITIES IN ARTISTIC OLD HOUSE

There was never a time when the services, tastes and special knowledge of the trained architect were more needed or more in demand. The carpenter and builder have for years been consulting experts in the building of thousands of suburban homes and farmhouses, and let us give them credit, at least, before the jigsaw era, for many beautiful and charming old houses, says a writer in the Architecture, who continues:

"Following the building shortage in these later years has come an appreciation of the fact that any old house, or new, be it as hopelessly ugly as it may, has possibilities. Architecture has shown many instances of 'before and after,' of old ramshackle, barn-like structures, altered into most delightful homes. Old barns have been made over into charming studios and living quarters, woodsheds incorporated into the redesigning of an old farmhouse. Everywhere is shown a wider appreciation that nothing is impossible to the architects of taste and skill.

"The old and hopelessly ugly city brownstone house and the little two or three-story brick house or stable on a side street have been made into artistic and attractive apartments or studio buildings.

"It is to the architects that we owe this renaissance and we have only made a beginning toward the development of the city beautiful from old and unsightly and out-of-date structures. Lest some should say that we are dealing with merely idealistic matters, with our own desire for better things artisically we remark that in every instance these 'artistic' improvements have proved the very best of business in increased rents and more desirable tenants.

"If the cost of new buildings has deterred many from carrying out their long cherished dream of owning their own home, there is abundant opportunity almost everywhere for the alteration of old places at very moderate cost. And old houses nearly always offer the nucles of a more substantial structure than many hurriedly-built modern houses put up in quantities for speculative purpose.

"In considering a new house the architect can very often effect a large saving by taking full advantage of local materials. The familiar stone houses of Pennsylvania are greatly admired, and throughout the New England States there are abundant reasons for using the local stone. It is right at hand and the transportation cost is a minimum one. An instance of the effective use of local stone came to mind some time ago in the purchase from an old Connecticut farm of the moss-covered stone fences that for generations had testified to the hard labor of the first owners of the field they inclosed. They added a picturesque and inexpensive note to a big fireplace and outside chimney.

HOW TO ESTIMATE

BY I. P. HICKS

In estimating material for interior finish it is quite an advantage to go over the plans and take down some of the necessary data from which to make the estimate something after the following form. This gives you the data in a convenient form and saves the time of looking over the plans an extra time for each different item in the estimate.

Rooms	Size Feet	Feet Base.
Vestibule	4x 6	20
Living room	14x18	64
Dining Room	12x16	56
Kitchen	10x14	48
Pantry	6x 7	26
Rear Entry	6x 6	24
Stair Hall	8x12	40
Second Story—		
Bedroom	12x14	52
Bedroom	13x16	58
Bedroom	12x15	54
Bath Room	8x 8	32
Closet	4x 4	16
Closet	4x 5	18
Closet	3x 5	16
Stairway	4x10	22
Hallway	5x16	42
Total	....	594

In the above estimate the plastering has been figured for a 9-foot ceiling for the first story and for an 8-foot ceiling for the second story. Small fractional parts of a yard have been discarded.

Note that the actual size of the rooms have been figured and in the matter of base it is safe to deduct 2½ feet for each outside doorway and 5 feet for each inside doorway. With the picture molding it is different. On this there is nothing to take out and a few feet should be added to make up for the waste in cutting, say about 5 per cent.

Beam ceiling should be carefully figured according to the way indicated on the plans, and enough should be added to each length to cut on. Room cornice should be figured in like manner. With the plate rail the doorways are figured out, but do not figure too close for there is sure to be some waste in cutting plate rails.

It will be found that this form of estimating saves some time and tends to accuracy as well. Rooms that have no picture mold, beam ceiling, room cornice and the like, such parts are left blank in the form, but all rooms have base and pastering, and in this way you catch the many items you must figure on in just once going over the plans.

From the yards of plastering you can estimate the lath required. Four-foot lath require 15 lath per yard 32 inch lath will require 22½ lath per yard. If you want to use some of both lengths of lath divide the yards something like this, ¼ of 734 yards would be 183 which you would multiply by 22½ to get the short lath required. You would then have left 551 yards on which to figure the 4-foot lath,

Feet Picture Mold.	Feet Beam Ceil.	Feet Room Cor.	Feet Plate Rail.	Yards Plaster
...	...	...	...	23
64	128	...	...	92
56	...	...	56	77
...	...	...	...	64
...	...	...	...	31
...	...	...	...	28
...	...	...	...	51
...	...	40	...	
52	...	...	...	65
58	...	...	...	74
54	...	...	...	68
...	...	...	...	36
...	...	...	...	16
...	...	...	...	18
...	...	...	...	16
...	...	...	...	29
...	...	...	...	46
284	128	40	56	734

thus you would multiply 551 by 15 for the long lath. This makes the figuring very easy for using the mixed lengths of lath and as some lath have to be cut any way it is all O K to have some of the 32-inch lath, but do not figure too many of the short lath for where 4-foot lath can be used without cutting they work to a better advantage than the short lath.

From the yards of plastering you can also estimate the sand, hard wall plaster and lime for the white coat.

There has always been a demand for some short cut in estimating carpenter labor, but the unreliable methods of these short cut ways of estimating have always been a serious drawback to the short cut work.

We will give a system which we think the average contractor can work out to meet his own needs. Don't take it for

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granted that our prices are exactly right but use the system and make your own prices. It has been our aim to make the prices average up approximately $1.00 per hour. It is quite likely that the contractor would make good at the prices given. It is the method and system that we want to set forth more than the prices. By keeping a cost record of work by this system the contractor should in a short time be able to perfect his prices so that he could make this plan of estimating as a complete success. We do not offer it as an extremely short cut in estimating but as a method of shortening the work to quite a considerable extent and without any hazardous risk to the contractor. The short cuts in estimating that are so short that they result in just a mere guess are not the kind to benefit by, they are more than likely to prove your financial ruin than a benefit, so do not trifle with them.

The way to go after an estimate by our method is like this:

Framing floors, including rough floors, 18 squares, $6	$108.00
Laying finish floor, oak, 10 squares, $6	60.00
Laying finish floor, pine, 8 squares $5	40.00
Framing partitions, 16 squares, $3	48.00
Framing ceilings, 8 squares, $1.50	12.00
Framing porch floors, 3 squares, $3	9.00
Framing porch ceiling, 3 squares, $1.50	4.50
Outside walls, framing and sheathing, 24 squares, $5	120.00
Putting on stucco boards, 24 squares, $1	24.00
If ½x4-inch siding is used, figure per square, $4.	
If shingles are used on outside walls, figure per square, $6.	
Roofs, framing sheathing and shingles, 20 squares, $10	200.00
Main cornice, 160 lineal feet, 25c	40.00
Porch cornice, 120 lineal feet, 3c	36.00
Porch steps, 20 lineal feet,30c	6.00
Porch rail, 110 lineal feet, 20c	22.00
Inside base, 600 lineal feet, 10c	60.00
Picture mold, 360 lineal feet, 3c	10.80
One sidelight doorway	14.00
One grade entrance doorway	10.00
One rear entrance doorway	9.00
One set folding doors	14.00
Main door opening, 18, $8	144.00
Window openings—	
2 mullion frames, 4 windows, each, $18	72.00
2 triple frames, $14	28.00
4 twin frames, $9	36.00
7 single frames, $5	35.00
6 cellar frames, $1.50	9.00
Main stairs, 16 steps, $250	40.00
Cellar stairs, 11 steps, $1	11.00
Pantry cases, etc., $3; each door, $2.00; each drawer, shelving per lineal foot, 10c.	
Hook strips and shelf, ordinary closets, each closet, $2.	
Mantel shelf	12.00

We have now shown the system, keep cost records by this method and make your prices to suit the work you have. Extend the system by adding new items as they suggest themselves to you in your business and you will soon have something worth all the little time it will take you to attend it. Shorten the work where you see a chance to do it with a safety but do not sacrifice safety for shortness.

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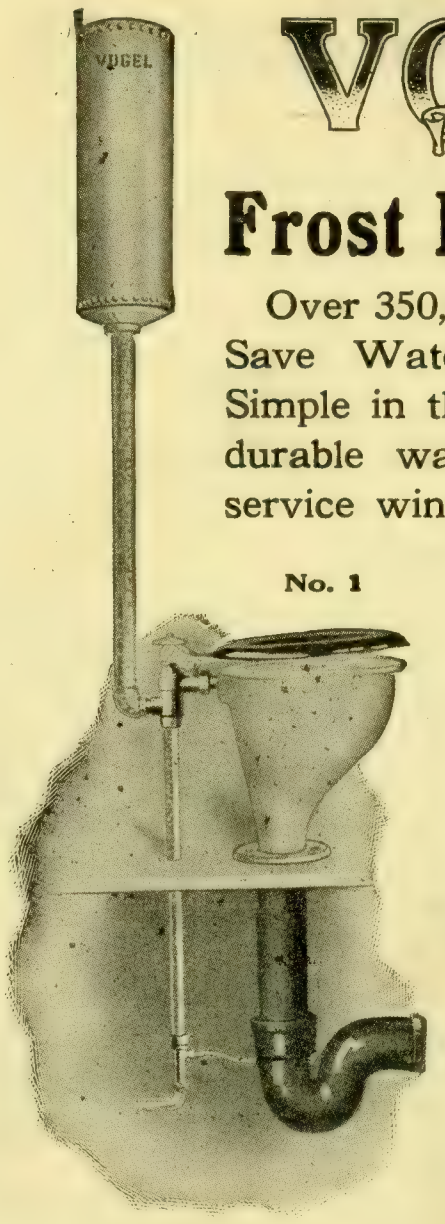
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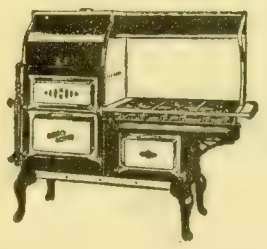
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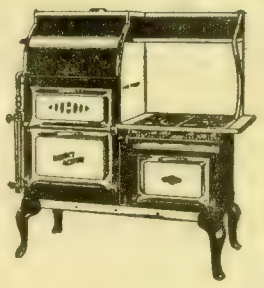
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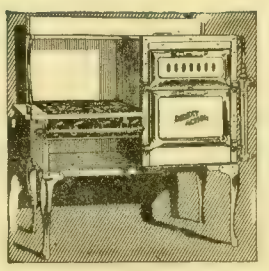


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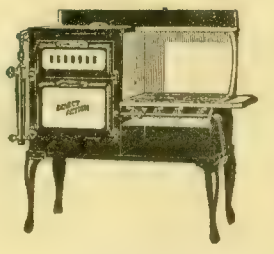
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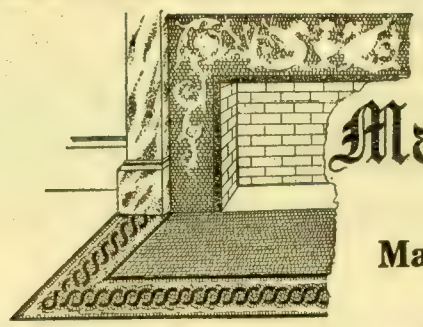
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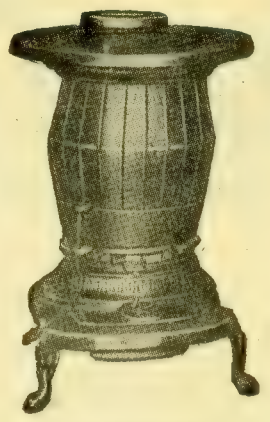
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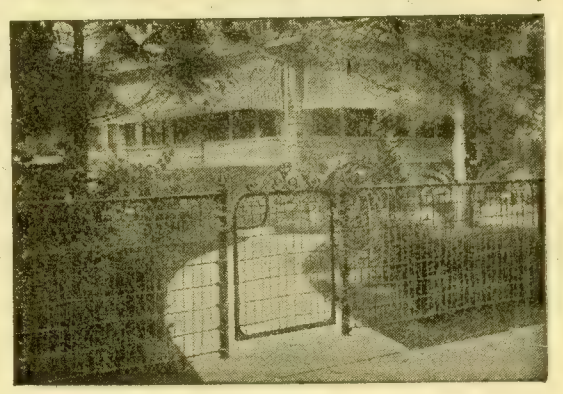
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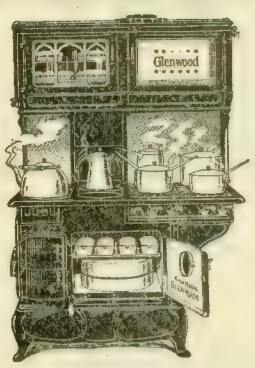
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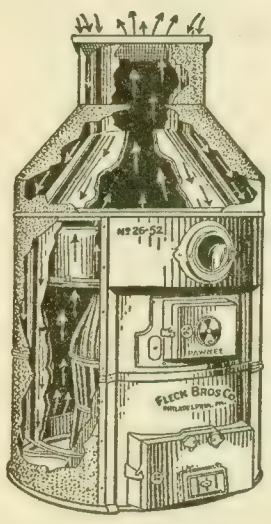


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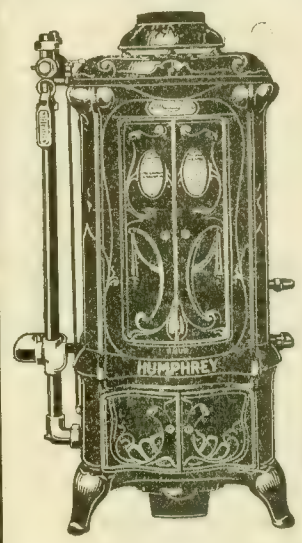
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VOLUME XXXV
Number 38

PHILADELPHIA
September 22, 1920

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As The Editor Sees It

SOME sound advise to the Prospective builder is given in *The Architect and Engineer* by Eugene T. Taylor.

Persons who have never employed an architect, says Mr. Taylor, are apt to be at a loss as to the proper method of procedure, while many who have had some experience may not be familiar with the intricacies of architectural practice. They may not understand that architecture is a profession, calling for men of the highest integrity, business capacity and artistic ability; to command the respect and confidence as advisors, and to sustain a grave responsibility to the public. No one may have given them practical information as to the relations that should subsist between client and architect. Experience has shown that lack of information on this subject is one of the most fruitful causes of trouble in building. The following is a brief outline of vital elements in building operations:

1. The owner, who is to spend the money, as he does not and cannnot know what he is buying, must trust the architect. Therefore he should first of all assure himself that the architect is worthy of his confidence; second, that he is fitted by study of economy in plan, construction, and material to discharge this grave responsibility, in short that he has the right to the professional title.

2. The owner's interests are to secure the most available service, suitable design, best construction, most economical expenditure of funds. These can only be obtained by employing, not as a luxury, but as a necessity, an expert, a competent and reliable architect. The owner will be most benefited by choosing an architect before deciding upon anything else connected with the building project (if possible even before fixing the building site and limit of expenditure); thereby gaining from start to finish the services of the expert's technical experience and knowledge in every phase of the problem.

3. Designing a building is a process of evolution. Nothing but the full working out of the problem can produce this. The architect's goal is to lead the client to the best solution of the problem in hand. He is a sort of clearing house, in adjusting the multiplicty of ideas, wishes, needs, financial and other details. The best eventual scheme may be quiet different from that which at the start was suggested by either owner or architect. The owner should get the benefit of his architect's best ideas and various solutions of the problem, not simply what is presented to catch the attention, and "get the job;" the complete services of an expert, not of a mere draftsman. "Blue prints" are not the sum and substance of this service.

4. Do not expect gratuitous competitive designs, any more than free diagnoses, prescriptions or briefs. Plans are not like merchandise, kept in stock, to fit all individual needs; the model plan exists only for its individual place and condition; each building requires special time study and labor—the architect's capital.

5. The architect's practice is upon the same basis as that of the physician and the attorney; each is a profession, and selection should be on exactly he same principle, upon record for character, integrity, ability and fitness for the service.

6. To employ an architect on the basis of what he charges is usually wrong. It is almost always wrong when the "cheapest man is selected. "Penny wise and pound foolish" applies most appropriately to this uneconomical method.

An incompetent man selling his service for a small fee may and often does waste a great deal of money in inefficient planning, unsafe and unscientific design, unwise specification of materials, and unimproved opportunity generally. An incompetent man as supervising architect is worse than useless as he has no accurate standards of his own but is at the mercy of the builder. A competent man by his services saves the client several times the amount of the architect's fee and often earns the undying gratitude of his client.

7 Architects, like doctors and lawyers, place different values upon their services, and their services likewise vary in merit and results. This should not confuse the

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owner—the best is likely to be the higher priced.

8. In merchandising one may buy calico or silk and pay accordingly, but there is only one kind of professional service that is worth paying for; that is the best of which the architect (or lawyer or doctor) is capable of giving. This means, generally, adherence to established standards of practice, and adequate fees. To underpay any man is to tempt him to be dishonest.

9. Make up your mind what you must have, then take the architect into your confidence as to the amount you are willing or able to expend; be perfectly frank with him. Do not try to set a price and refuse to relinquish terms and conditions which are bound to make your building cost more than you are willing to spend. Do not hurry. Take time enough on the preliminary sketches, so that you and the architect understand each other before the working drawings are started.

10. Do business only with a capable and honest contractor. Incompetence is as much to be avoided as dishonesty. "You cannot get blood out of a turnip," nor should you expect to get an honest building if the price asked is too low. Watch the work as much as you see fit, but if you have employed an architect whom you can trust, rely upon him and save yourself time and worry. You can earn more at your own business than you can save by trying to shoulder the responsibility that properly belongs to the archiect.

11. Do not violate the unwritten law which requires one head on a job. Let your instructions to the contractor be given through the architect. The contractor who comes to you with suggestions or to call your attention to real or fancied errors in the drawings or specifications should be referred to the architect. Make use of the architect's advise. That is what you are paying him for.

Do not mar your building by a wrong location, etc., or with incongruous decorations and furnishings. If you desire an effect of organic unity when the work is done, use the architect to that end.

12. Architectural service is the only form of reliable insurance that the client may purchase which gives him the right to claim that he is getting what he pays for. An architect puts selling value into a building not only because the owner can claim for the building what the architect certifies it really is, but also from the intrinsic value resulting from a good design as compared with a poor one.

13. If you follow these few hints, in all that they imply, there is no reason why your structure should cost you a cent beyond the estimated price, or why it should cost you more worry than any ordinary business transaction.

THE MECHANIC OF TO-MORROW

What is being done to train workers in the building trades to meet the big construction demands soon to come?

By R. E. Dockham

THERE is a well known poem by Sam Walter Foss entitled, "He Worried About It" which tells of a chap who realizes that some very serious things are possibly going to happen in just a few million years or so; our coal and wood supplies are going to disappear, the earth fall into the sun and several other dire catastrophes, he thinks, are going to take place. The immediate happenings such as his wife doing washing for hire and his daughter sewing shirts to support him are of too small a consequence so he does not worry about these; it's only those important things of ages to come that concern him.

We have laughed not a little about this poor chap who worried about it; the incongruity of his treatment of things rather tickles us. His attitude, however, is somewhat comparable with that of many of us in respect to our treatment of a rather alarming condition of the building trades. The fact is we are not creating mechanics fast enough and furthermore many of those we do turn out as products of our shops are far below the level, in ability, of those men of twenty-five years ago. There has existed for some years an antipathy among men of the various trades for the occupations which give them their livelihod. Perhaps this is most noticeable in the attitude of men who have sons growing into manhood.

It is quite a common occurrence to hear such men declare vehemently that their business is the most miserable ever, and that they would never, if they could help it, allow their sons to take it up. They have determined that, having had to struggle hard and long themselves, things should be a little easier for their boys; so their eyes have swept the horizon of business activities, settling finally upon one of the more genteel professions, sent the boys to college and in countless numbers of cases turned loose upon the public poor doctors, dentists, lawyers or what not, and this out of timber, fitted by nature and by the influence of generations of mechanics, which rightly directed and highly trained, might have produced wonders of accomplishment in the field of construction.

Again, the father of many a college trained lad cuts him loose from a business which he, the father, has founded and built in a mighty profitable enterprise

(Continued on Page 822.)

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Store (alts.), 720 Market street, Philadelphia, $3,500. Architect, private plans. Owners, Kohn, Adler & Co., on premises. Interior alterations. Owners will build.

Trestle, Grange avenue, between Seventh street and P. & R. R. R., Philadelphia, $12,000. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Fox Motor Co., Broad and Huntingdon streets, Philadelphia. Concrete and steel. Engineers will build.

Power Plant, Twenty-first and Lippincott streets, Philadelphia. Architects, Stanford B. Lewis, Dexter Building, Philadelphia. Owner, Glen Knitting Mill Co., Second and Westmoreland streets, Philadelphia. Brick, concrete and steel, 1 story, 99x50 feet, slag roof, rolled steel sash, roof ventilators, monitor, plumbing, drainage, electric work, boilers, engines, generators, heaters, receivers, switchboards. Architect has received sub-bids.

Mill Building, Twenty-first and Lippincott streets, Philadelphia. Architect, Stanford B. Lewis, Dexter Building, Philadelphia. Owner, Glen Knitting Mill Co., Second and Westmoreland streets, Philadelphia. Steam heating, electric lighting, plumbing, sprinkler system, electric elevator. Architect has received sub-bids.

Mill Building (alts. and add.), Fifth and Colmubia avenue, Philadelphia. Architects, Baer, Cooke & Co., Land Title Building, Philadelphia. Owners, Philadelphia Carpet Co., on premises. Reinforced concrete, 1 story, 18x12 feet, slag roof, concrete floors, concrete foundations, concrete floors, fire doors, steel work, slag roof, carpentry, mill work, painting. Architects have received bids.

Foundations for Central Library, Nineteenth to Twentieth, Parkway, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, City of Philadelphia, care of John Ashhurst, Thirteenth and Locust streets, Philadelphia. Concrete, 344x232 feet. Lowest bids submitted by John Gill & Son, Cleveland, Ohio, $425,000; M. Melody & Son, 1322 Race street, Philadelphia, $449,357.

Bridges (3), Home for Indigent, Holmesburg, Philadelphia. Architect, John F. B. Sinkler, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Health and Charities, City Hall, Philadelphia. Steel and sheet metal work. Plans in progress.

Residence (alts.) and Garage, 209 Pelham road, Philadelphia, $2,500. Arhcitect, Otto Herold, Reading Terminal, Philadelphia. Owner, Clark Dillenback, on premises. Stone, 1½ stories, 20x24 feet, slate roof, cement and pine floors. Owner will build and is taking subbids.

Foundations for Turrets and Crane Track, Spec. 4299, Navy Yard, Philadelphia, Pa. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Concrete and steel, 400x44 feet, 282x37 feet, concrete piles, iron railings, 634 feet of crane track, electric conduit system. Owners have received bids.

Hotel, Ninth and Chestnut streets, Philadelphia. Architect, Frederick Webber, Morris Building, Philadelphia. Owners, Benjamin Franklin Hotel Co., care of architect. Lessee, United Hotel Corporation, 25 West Forty-fifth street, New York City. Reinforced concrete, steel, stone and terra cotta, 18 stories, 194x230 feet, stone foundations, steam heating, tile, marble work, terrazzo work, elevators, ornamental iron work. Plans in progress. Architect will sub-let all contracts.

Building, Southwest Corner Fifteenth and Hamilton streets, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, McIlvaine Bros., on premises. Brick, 3 stories, kalamein doors, mill work, carpentry, maple floors, rolled steel sash, plumbing, painting, glazing. Architects taking bids due September 24th. P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Ketcham & McQuade, 1029 Brown street; F. B. Davis & Son, Inc., 240 North Sixteenth street; F. L. Hoover & Son, 1023 Cherry street; Kessler Cont. Co., Drexel Building; Sutton & Stephenson, 1317 Washington avenue; W. O. Springer, 2004 Naudain street; A. B. MacGregor, 1628 Vine street; Monaghan & Losse, Inc., 3016 Chestnut street, and F. E. Wallace, 1220 Chancellor street, are figuring.

Bank (alts.), Second and Girard avenue, Philadelphia. Architects, Architects' Service Co., 10 South Eighteenth street, Philadelphia. Owners, Eighth National Bank, on premises. Refacing with granite and limestone, exterior painting, (2) sliding and (2) revolving doors. Architects taking sub-bids.

Residence (alts. and add.), 7162 Ridge avenue, Roxborough, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, L. E. Adams, on premises. Brick and stone, 2 story, hot water heating. Architects will be ready for bids in a few days.

Garage, Vandyke street, North of Comly street, Philadelphia, $3,500. Architect, private plans. Owner, F. W. Zebley, 6012 Hegerman street, Philadelphia. Brick, 1 story, irregular size, slag roof, steam heating, electric lighting, cement floor. Owner will build.

Store and Residence (alts. and add.), Southwest Corner Twenty-fourth and Oakford streets. Architect, Frank E. Hahn, 1112 Chestnut st., Philadelphia. Owner, A. Ottenbacker, on premises. Brick, new third floor, 18x60 feet, slag roof, composition and pine floors, hot water heating, electric lighting, tile and marble work. Bond. Architect has received bids.

Building (alts.), 260 South Seventeenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Francis X. Delaney, care of architect. Brick, 3 stories, 29x74 feet, general alterations, slag roof, brick work, electric lighting. Architect taking bids due as soon as possible. Smith-Hardican Co., 1606 Cherry street; J. Jones Davies, 3931 Walnut street, and Thomas C. Trafford, 1613 Sansom street, are figuring.

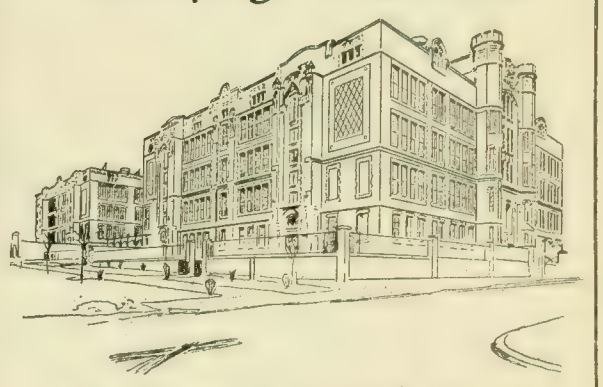
Stores and Meeting Room, Southeast Corner Howard street and Susquehanna avenue, Philadephia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, general alterations and additions. Plans in progress.

Sunday School Building, Southwest Corner Fifty-fifth and Pentridge streets, $75,000. Architect, W. H. Garns, Indianapolis, Ind. Owners, Emmanuel M. P. Church, care of William F. Heckenberger, secretary, 5022 Ogden street, Philadelphia, care of Jackson Dunlap, 138 North Fifty-second street. Stone, 1 story, 96x57½ feet, asbestos shingle roof, pine floors, metal lath, iron work, stone foundations, steam heating, electric lighting. Permit issued.

Garage, 1016 Westview street, Germantown, Philadelphia. Architect, private plans. Owner, M. H. Harrington, 112 West Upsal street, Germantown. Brick, 1½ stories, 20x35 feet, slate roof, cement floors, stone foundations, hot water heat, electric lighting. Owner has received bids.

Rectory (alts. and add.), Mascher and Master streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, Sacred Heart Roman Catholic Magyar Church, on premises. Brick, third

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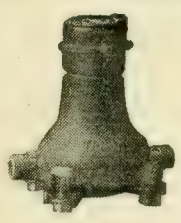
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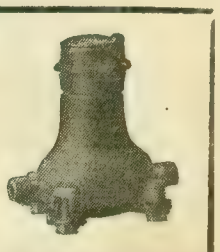
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story add. to present building and general interior alterations. Plans in progress.

Hospital Building and addition to Nurses' Home, Broad and Wingohocking streets, Philadelphia. Architect, C. A. Ziegler, Bailey Building, Philadelphia. Owners, St. Luke's Hospital, on premises. Brick, fireproof construction, 4 stories. Working plans in progress.

Convent Building, Chestnut Hill, Pa. Architect, John J. Kennedy, Ford Building, Wilmington, Del. Owner, Our Mother of Consolation, care of Rev. Nicholas J. Vasey, O. S. A., Chestnut Hill, Pa. Stone, 3 stories, 32x70 feet, slag roof, oak and pine floors, stone foundations, electric lighting, tile and marble work, metal lath, fire doors, iron work, bond. Architect taking bids, due Oct. 4th. Jacob Myers & Sons Co., Witherspoon Building; Wm. R. Dougherty, 1610 Sansom street; Geo. Evans, Inc., 45 North Thirteenth street, and M. Meloday & Son, 1322 Race street, Philadelphia, are figuring.

Factory, 107-11 Race street, Philadelphia. Architect, Adin B. Lacey, 1012 Walnut street, Philadelphia. Owners, J. Frank Shellenberger & Co., Front and Race streets. Brick (slow burning construction), 5 stories, 57x66 feet, slag roof, cement and pine floors, roof ventilators, waterproofing, iron work, bond, fire doors, rolled steel sash and skylights, stone foundations. Architect taking bids, due September 23rd, from Frank E. Wallace, 1220 Chancellor street, Philadelphia.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (add.), 1018 Clinton street, Philadelphia, $4,000. Architects, Melior, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, J. C. Groome, on premises. Brick, 3 stories, 5x12 feet, slag roof, plumbing, metal lath, plastering, painting and glazing. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Building (alts. and add.), Germantown, Philadelphia, $12,000. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owners, Wissahickon School Club, Germantown, Philadelphia. Carpentry, maple floors, cement and brick work, iron and metal work, slag roof, plastering, hardware, plumbing, painting and glazing. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Factory (add.), Wingohocking street, West of Frankford Creek, $12,000. Architect, private plans. Owners, Philadelphia Felt Co., on premises. Brick, 2 stories, 62½x62 feet and 32x6 feet, slag roof. Contract awarded to Edw. T. Bender, 6014 Torresdale avenue, Philadelphia.

Auto Sales Room, Walnut street, West of Forty-sixth street, Philadelphia, $37,000. Architect, private plans. Owner, Joohn P. Donahue, 5400 Market street, Philadelphia. Brick, 1 story, 125x95 feet, slag roof, cement and pine floors, electric lighting, steam heating. Contract awarded to Philadelphia Realty Co., 111 West Mt. Airy avenue, Philadelphia.

Offices, 1419 Spruce street, Philadelphia. Architects, Folsom & Stanton, Fuller Building, Philadelphia. Owners, Dr. George C. Speirs and Dr. C. S. Steigerwald, Flanders Building. Glass partitions, cabinet work, mill work, plumbing, composition floors, electric lighting Contract awarded to Bowden Const. Co., 1713 Sansom street, Philadelphia.

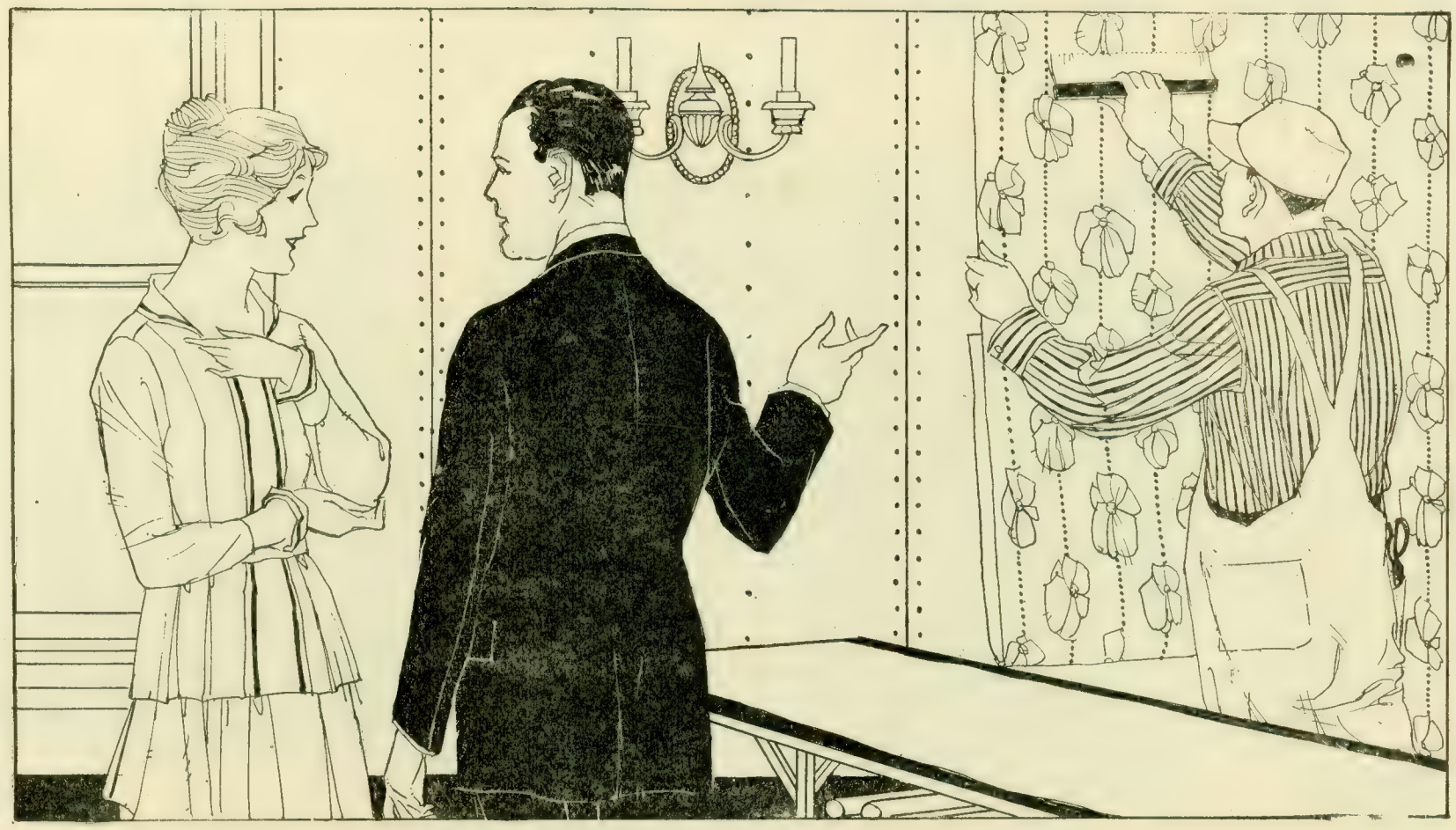
Factory, Rising Sun avenue, East of Adams street, Philadelphia. Engineers, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue, Philadelphia. Brick, 3 stories, 40x54 feet, slag roof, steam heating, electric lighting, cement floors, rolled steel sash. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Apartmnet House (alts. and add.) and (4) Garages, Thirty-fourth and Lancaster avenue, $15,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, A. R. Alessi, Tenth and Cedar streets, Darby, Pa. Three story add. to building, garages, brick, 1 story, 12x18 feet, slag roof, cement floor, hot water heat, electire light, tile and marble work, hardwood floors, built-in beds, plumbing. Contract awarded to Julius Nelson, 29 Cherry street, Sharon Hill, Pa.

Residence (alts.), Fifteenth and Allegheny avenue, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Allegheny Realty Co., care of archi-

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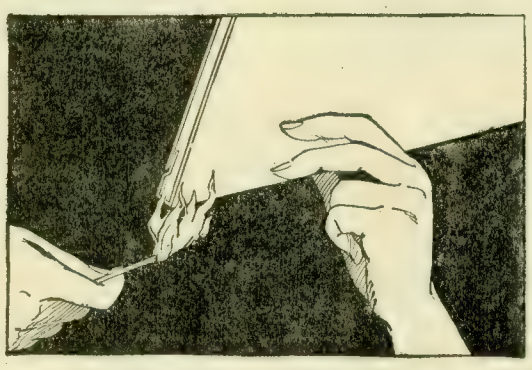
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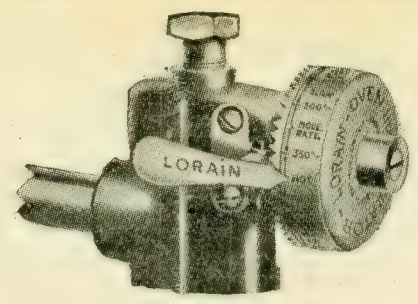
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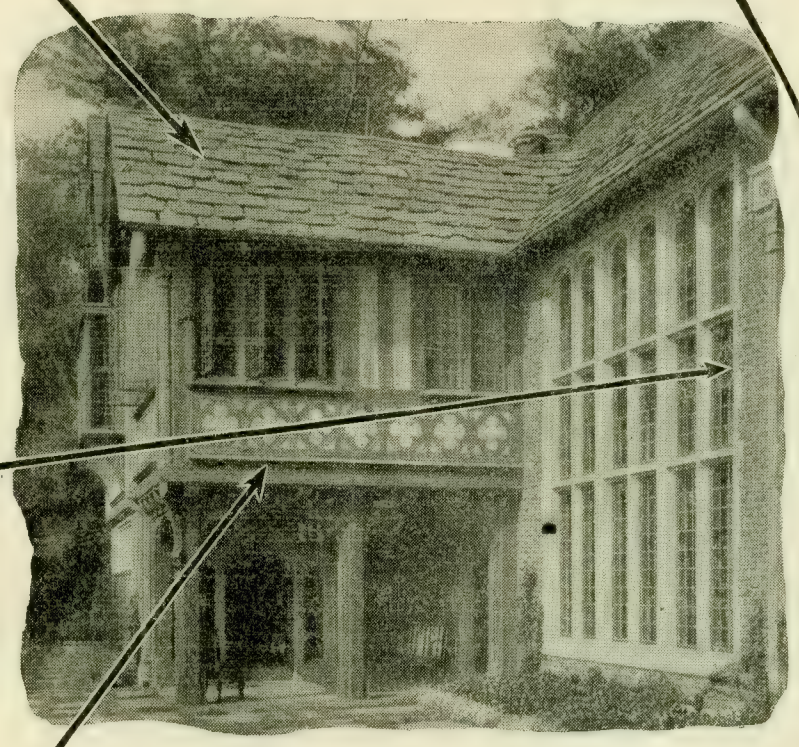
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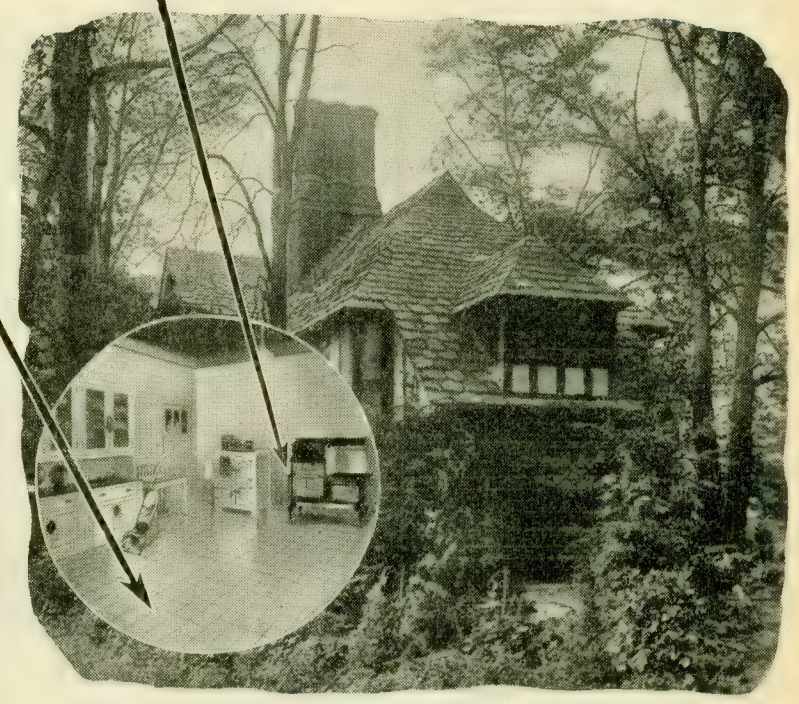
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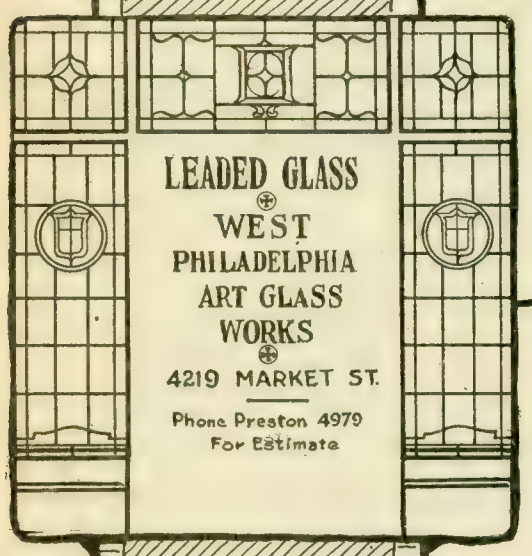
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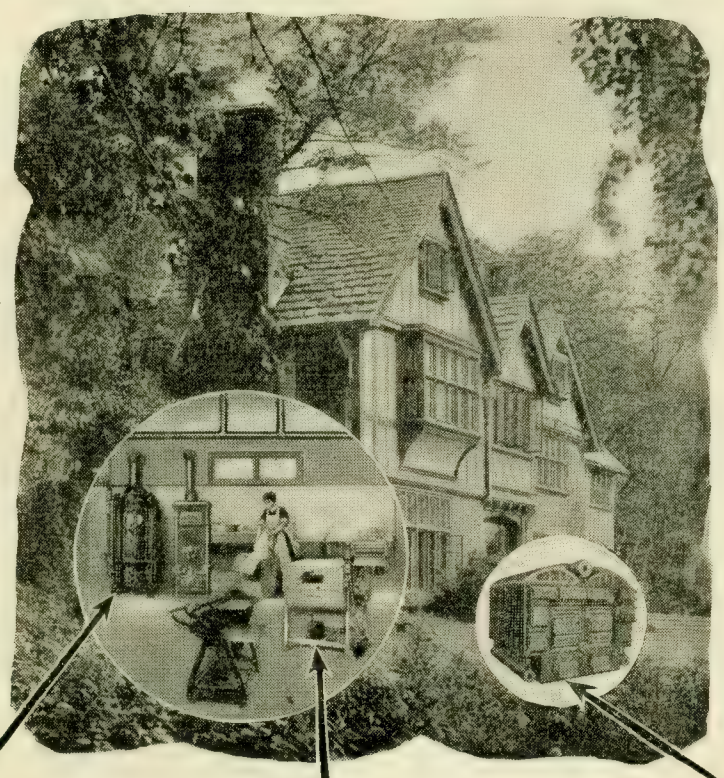
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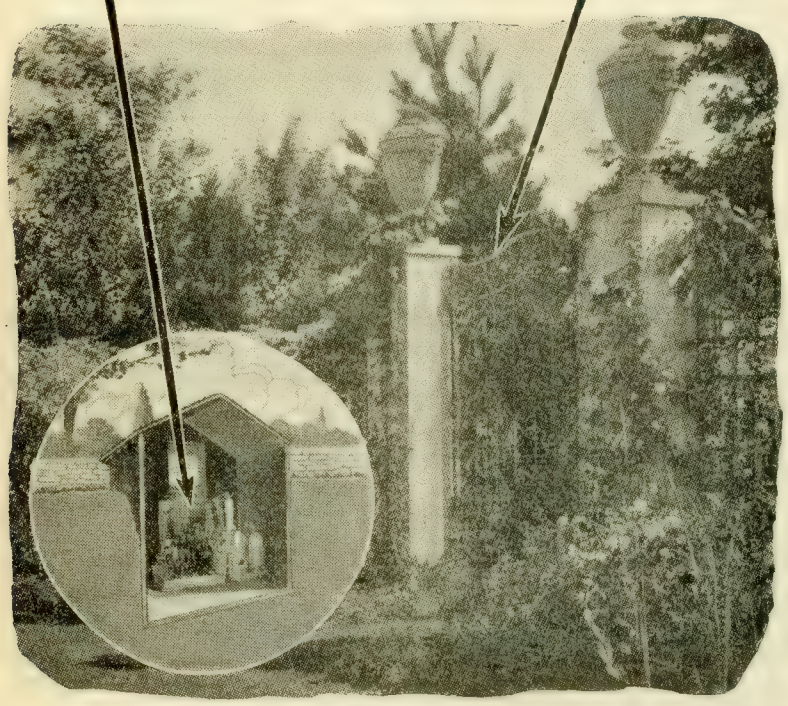
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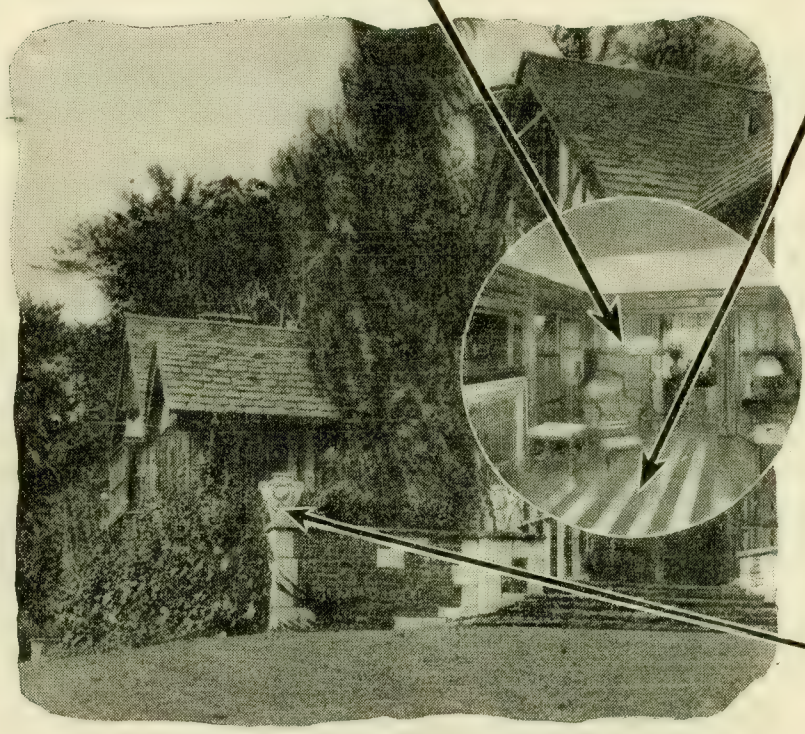
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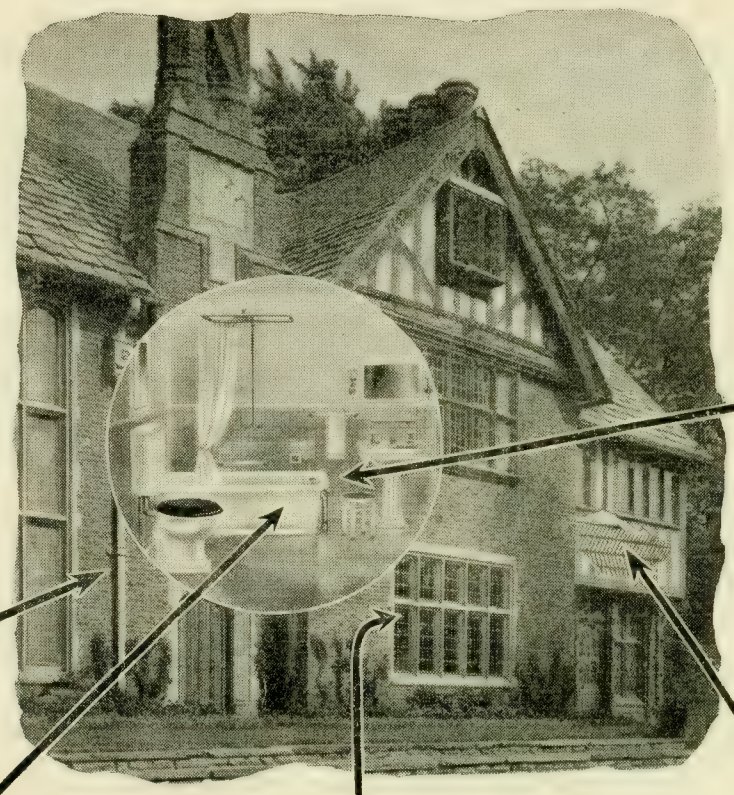
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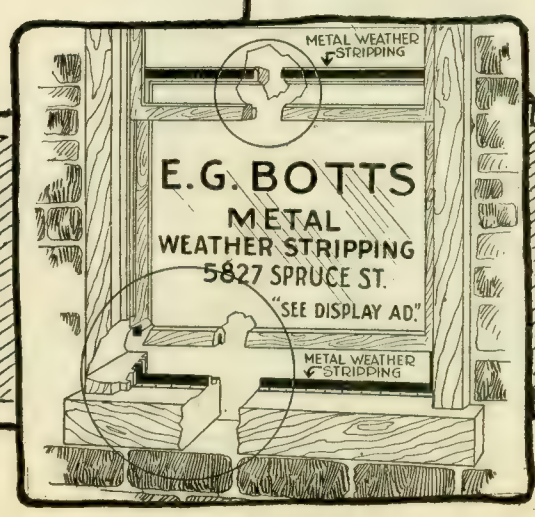


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tects. Carpentry, mill work, plastering, plumbing, painting and glazing. Contract awarded to Pierce-Henon, Inc., Finance Building, Philadelphia.

Residence (alts.), 1329 Pine street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, William H. Hoffman, 1329 Pine street, Philadelphia. Hardwood floors, plastering, painting, mill work, carpentry. Contract awarded to Pierce-Henon, Inc., Finance Building, Philadelphia.

Factory (alts.) (fire repairs), 436 Thirty-eighth street, $2,375. Architect, private plans. Owners, J. H. Seitz & Son, 414 Brown street, Philadelphia. General fire repairs. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Apartment House (alts.), 1521 Spruce street, Philadelphia. Architect, Frank V. Nickels, 4400 Manayunk avenue, Philadelphia. Owner, name withheld General interior alterations, plumbing, new partitions, hardwood floors, composition floors, electric work. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

Power House, Tacony street, East of Buckius street, Philadelphia, $13,500. Architect, private plans. Owners, Carver File Co., 3231 Frankford avenue, Philadelphia. Brick and steel, 1 story, 48½x27 feet, slag roof, electric lighting, cement floors, rolled steel sash. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Steel Storage Building and Lumber Storage Shed, Hunting Park avenue, East of Third street, Philadelphia, $7,000. Architeit, private plans. Owners, Commercial Truck Co., Twenty-seventh and Brown streets, Philadelphia. Brick and steel, 1 story, irregular size, slag roof, electric lighting, cement floors, rolled steel sash, and frame, 1 story, 40x50 feet. Contract awarded to William Steele & Sons, 1600 Arch street.

Store and Dwelling, Southwest Corner Thirty-eighth and Wallace streets, Philadelphia, $6,500. Architect, private plans. Owner, Harry E. Casey, Southeast Corner Thirty-eighth and Wallace streets, Philadelphia. Brick, 2 stories, 16x14 feet and 16x8 feet, slag roof, electric lighting. Contract awarded to John T. Sanders, 4411 Sansom street, Philadelphia.

Gaarge, Whitby avenue, West of Fifty-third street, Philadelphia, $6,000. Architect, private plans. Owner, Harry J. Loeper, Fifty-third and Whitby avenue, Philadelphia. Brick, 1 story, 108x85 feet, slag roof, cement floor. Contract awarded to John T. Sanders, 4411 Sansom street, Philadelphia.

Store and Dwelling (add.), 5046 Germantown avenue, Philadelphia, $4,250. Architect, private plans. Owner, Peter Lang, on premises. Brick, 2 stories, 12x33 feet, slag roof. Contract awarded to Bell & Weir, 131 West Sharpnack street, Philadelphia.

Store and Dwelling (alts. and add.), 221 North Fifteenth street, Philadelphia, $2,700. Architect, private plans. Owner, Julius Quetter, on premises. Brick, 1 story, 16x15 feet, slag roof, electric lighting. Contract awarded to D. DeDominicus, 3434 Lancaster avenue, Philadelphia.

Factory and Loading Platform, P. and R. R. R. and Grange avenue, Philadelphia, $500,000. Architect, private plans. Owner, Fox Motor Car Co., Broad and Huntingdon streets, Philadelphia. Reinforced concrete, 3 stories, 60x400 feet and 50x155 feet, slag roof, cement floors, metal lath, elevators, floor hardener, iron work, rolled steel skylights and sash, electric lighting, steam heating, stone foundations. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

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Residence (alts.) to Apartments, 2016 Wallace street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. James Wilson, care of architect. Interior alterations, parquetry floors, linoleum, hot air heating, electric lighting, plumbing, sheet rock partitions. Contract awarded to J. Jones Davies, 3931 Walnut street, Philadelphia.

Office (alts.), 722 Sansom street, Philadelphia, $4,300. Architect, private plans. Owner, Joseph Fisher, 901 North Thirty-third street, Philadelphia. General interior alterations, new partitions, hardwood floors. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

Garage, West side of Croskey street, North of Norris street, $4,860. Architect, private plans. Owners, F. Traganza, 2009 North Twenty-second street, Philadelphia. Brick, 1 story, 16x60 feet, slag roof, cement floor, electric lighting, steam heating. Contract awarded to Charles D. Land, Northeast Corner Twenty-eighth and Cambria streets.

Store (alts.), 123 North Eighth street, Philadelphia, $4,000. Architect, private plans Owners, Finley Acker Co., on premises. General interior alterations. Contract awarded to William L. Bushnell, 2146 East Norris street, Philadelphia.

Property (improvements), 1710 Walnut st., Philadelphia. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Lena Elfman, 1421 Walnut street, Philadelphia. Brick work, plastering, painting, glazing, tin roof, pine and composition floors, vapor heat, electric lighting, tile and marble work, iron work, bond. Contract awarded to Joseph E. Foster, 806 Walnut street, Philadelphia.

Sub-Station (add.), Richmond and Norris streets, Philadelphia. Architect, private plans. Owners, Wm. Cramp Ship and Engine Building Co., Richmond and Norris streets, Philadelphia. Brick, 2 stories, 60x20 feet, slag roof, cement floors (electric lighting reserved). Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Power House, Rising Sun avenue, east of Adams road, Philadelphia, $150,000. Architect, private plans. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue, Philadelphia. Brick and steel, 1 story, 51x71 feet ,slag roof, electric lighting, cement floors, rolled steel sash. Contract awarded to Wm. Steele & Sons Co., 1600 Arch street, Philadelphia.

Power House, Stemer street, between Jasper and Helen streets, Philadelphia, $100,000. Architect, private plans. Owners, Orinoka Mills, Ruth and Somerset streets, Philadelphia. Brick and steel, 1 story, 50x117 feet, slag and concrete roof, electric lighting, cement floors, waterproofing, rolled steel sash, ventilators. Contract awarded to Wilson Ruff Co., 1004 Franklin Building, Philadelphia.

Restaurant (alts.), Nineteenth and Market streets, Philadelphia, $50,000. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Bahls Co., on premises. General renovation, tile work, marble work, steam heating, painting, glazing, cork insulation, plumbing, kitchen equipment, refrigerators, gas ranges. Contract awarded to Curtis Grindrod Co., Franklin Building, Philadelphia.

Factory (add.), northwest corner of Ontario and Rorer streets, Philadelphia, $30,000. Architect, private plans. Owners, Ontario Dyeing Co., on premises. Brick and steel, 2 stories, 33x37½ feet, slag roof, electric lighting, pine floors. Contract awarded to F. Crompton & Bro., 4614 Oakland street, Philadelphia.

Factory (alts.), 824-26 Cherry street, Philadelphia. Architect, private plans. Owner, W.



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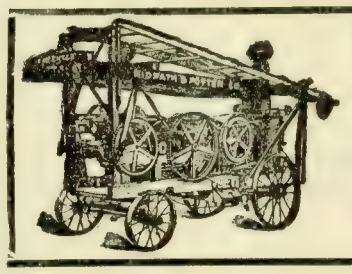
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J. Auerbach, 907 North Sixty-fourth street, Philadelphia. General interior alterations, new partitions, carpentry. Contract awarded to H. J. Gordy & Bro., 221 South Alden street, Philadelphia.

Pennsylvania Construction News

Tank Tower, Lenni, Pa. Architect, Amos W. Barnes, 1507 Arch street, Philadelphia. Owner, George Brown & Son, Lenni, Pa. Structural steel, concrete foundations, cedar tank, 30,000-gallon capacity. Architect is subletting.

Fraternity House, State College, Pa. Architect, Sidney Heckert, Pittsburgh, Pa. Owner, Pennsylvania Alpha Zeta Association, State College, Pa. Stone and brick, 2 stories, 105x62 feet, composition roof, oak and composition floors, stone foundations, tile and marble work, hollow metal skylights (heating, plumbing and electric work reserved). Architect has received bids.

Theatre (alts. and add.), Coatesville, Pa. Architect, R. A. Kearns, Fuller Building, Philadelphia. Owner, Palace Theatre, Coatesville, Pa. Brick, 2 stories, 24x80 feet, slag roof, cement and pine floors, steam heating, electric lighting, tile and marble work, iron work. Architect taking bids due September 24th. W. J. Elliott, W. K. Thorn, W. R. Beard & Son, Horace Entriken, and P. T. Steen, all of Coatesville, Pa., are figuring.

Stable (alts.), Cedar road, near Elkins Park, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Wm. A. Longshore, care of architect. General alterations. Architect taking bids, due September 25th. E. Allen Reeves, Abington, Pa., and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Pennsylvania Contracts Awarded

Bungalow, Melrose Park, Pa. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner, L. H. Manko, 313 Arch street, Philadelphia. Hollow tile and stucco, 1½ stories, 30x46 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Residence (alts.), Meadowbrook, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, Spencer K. Mulford, Wyncote, Pa. Painting, stairways, electric lighting, plumbing, mill work. Contract awarded to A. E. Barnes, Twentieth and Pacific streets, Philadelphia.

Horse and Cow Stable, Ardmore, Pa. Architect, Robert Cridland, Bailey Building, Philadelphia. Owner, J. H. Carstairs, Bellevue Court Building, Philadelphia. Stone and frame, 3 stories, 27x37 feet, shingle roof, cement, cork and pine floors, electric lighting, stone foundations. Contract awarded to Charles C. Pace, Merion, Pa.

New Jersey Construction News

Home (add.), Jamesburg, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, State Home for Boys, care of L. L. Jackson, on premises. Brick and concrete, 2 stories, 24x22 feet, concrete foundations, slate roof, composition floors, heating extension, electric lighting, hollow metal skylights, hospital equipment. Architect tak-

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ing bids due September 27th. Perrine Bockelew, Jamesburg, N. J.; Carroll & Pullen, Princeton, N. J., and Stark S. Faussett, Trenton, N. J., are figuring.

Residence (alts. and add.), West Berlin, N. J. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, August Enrico, West Berlin, N. J. Frame, 2 stories, 20x50 feet, shingle roof, oak and pine floors, hot water heat, electric lighting. Owner is taking bids.

Residence, North Cambridge avenue, Ventnor, N. J. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City. Owner, Mrs. Sarah Essig, North Troy avenue, Atlantic City, N. J. Hollow tile, stucco, 1½ stories, 32x50 feet, concrete foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect will be ready for bids next week.

Apartment and Salesroom, Chelsea, N. J., $70,000. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, Frank Chambers, Chelsea, N. J. Brick, 3 stories, 50x95 feet, concrete foundations, slag roof, cement floors, electric light. Architect taking preliminary estimates.

Stores (4), Arkansas and Atlantic avenues, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Frank Riffer, care of architect. Brick and steel, 1 story, 55x65 feet, concrete foundations, slag roof, pine floors, hot water heat, electric light, (3) rolled steel skylights. Architect taking bids due as soon as possible. Gus Miller, Atlantic City, N. J., is figuring.

School, Glassboro, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, State of New Jersey, Board of Education, care of C. Kendell, chairman, Capitol Building, Trenton, N. J. Brick and terra cotta, 3 stories, 301x125 feet, stone foundations, slate, slag and metal roof, hardwood floors, steam heating, electric lighting, tile work, marble and terrazzo work, elevators. Low bidder: George Dose, 43 West Twenty-seventh street, New York City, $496,295.

School, Collingswood, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Board of Education, Collingswood, N. J. Brick, 1½ stories, 86x25 feet, wings (2) 36x25 feet, slag and shingle roof, cement, tile and pine floors, metal lath, dampproofing, iron work, fire doors, marble work, steam heating, electric lighting, stone foundations. Bond. Lowest bid submitted by George Bachman, 19 North Thirtieth street, Camden, N. J., $30,300.

Garage, Office and Apartment, Absecon, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atantic City. Owner, name withheld. Hollow tile and stuocc, 2 stories, 50x100 feet, concrete and wood floors, electric lighting. Sketches in progress.

Ice Plant, New Jersey and Adriatic avenues, Atlantic City. Architect, H. Vaughan, Guarantee Trust Building, Atlantic City. Owner, Hygienic Ice Co., H. H. Smith, 223 North Connecticut avenue. Reinforced concrete. Sketches in progress.

Residence (int. alts.), 124 South Illinois avenue, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Dr. C. C. Charlton, on premises. Brick, general interior alterations. Plans in progress.

Bungalow-Apartment-Manor, location withheld, $250,000. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City. Owner, name withheld. Too early for details.

Service Station and Garage, location withheld. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City. Owner, name withheld. Brick, concrete, 1 and 2 stories, 166x77 feet, concrete foundations and floors, slag roof, steam heat, electric light, ornamental tile work, hollow metal skylights, roof ventilators, plate glass. Plans in progress.

Apartment (12), location withheld, $50,000. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City. Owner, name withheld. Brick, 3 stories and basement, 57x35 feet, concrete foundations, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Moose Hall, Delaware and Atlantic avenues, Atlantic City, $100,000. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City. Owner, L. O. O. M., care of Mr. Halpren, Indiana and Atlantic avenues. Brick, stone, 3 stories, 40x150 feet, concrete foundations, slag roof, hardwood floors, electric light, hot water heat, tile and marble work, plumbing. Plans in progress.

Store and Apartment, Maple avenue, Merchantville, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, J. A. Berme, Camden, N. J. Brick, 2 stories, 30x60 feet, concrete foundations, slag roof, wood floors, hot water heat, electric light, plate glass, face brick Architect will take sub-bids.

Comfort Station (int. alts.), Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, City of Trenton, L. D. Hirsh, City Hall, Trenton. General interior alterations, plumbing. Architect has received bids.

Factory (add.), Seigel street, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, Jersey Keystone Wood Co., on premises. Frame, 2 stories, 32x52½ feet, cement foundations, slag roof, cement and wood floors, electric lighting. Plans in progress. Architect will be ready for bids next week.

Residence (alts. and general remodeling), Chelsea. N. J. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. H. Geist, Land Title Building, Philadelphia. Solarium, 20x24 feet, mill work, painting, plumbing, oak floors, tile terraces, electric lighting, tile work. Architect has received bids.

New Jersey Contracts Awarded

Store and Office, North Carolina and Atlantic avenues, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, William I. Segal, on premises. Brick, steel, 3 stories, 55x140 feet, concrete foundations, slag roof, hardwood floors, hot watetr heat, electric light, tile and marble work, roof ventilators, hollow metal skylights. Contract awarded to Philip G. Hannum, Atlantic City, N. J.

Store (alts. and add.), Northwest Corner Fifth and Federal streets, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, J. Edward Fagen, Camden, N. J. Brick, interior alterations. Contract awarded to L. T. West, Camden, N. J.

Power Plant, Camden, N. J. Architect, private plans. Owners, John R. Evans Co., 419 Arch street, Philadelphia. Brick and concrete, 1 story, slag roof, cement floors, electric lighting, cement work. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Garage, South Orange, N. J. Architect, C.



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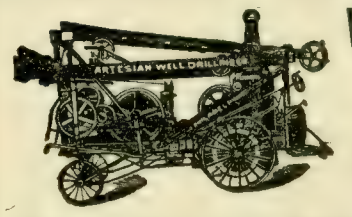
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A. Ziegler, Bailey Building, Philadelphia. Owner, M. S. Swenson, South Orange, N. J. Stone and frame, 1½ stories, 25x40 feet, shingle roof, concrete foundations, steam heating, electric lighting, cement and pine floors, boiler. Contract awarded to Leithgow & Co., 79 King street, New York City, who will sub-let.

Miscellaneous Construction News

Sales and Service Building, St. Paul and Center streets, Baltimore, Md. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, J. J. Greenberg, Morris Building, Philadelphia. Brick, concrete and steel. Architect taking bids due September 25th. West Const. Co., Morrow Bros., H. Calvin Barnes, Hicks, Tase & Norris and Spencer Const. Co., all of Baltimore, Md., are figuring.

School, Goodyear, Conn. Architect, Henry L. Reinhold ,Jr., 1513 Walnut street, Philadelphia. Owners, Board of Education, Killingly Town School Committee, Killingly, Pa. Concrete, brick and stone, 2 stories, 148x92 feet, slag roof, steam heating, electric lighting, pine floors. Plans about completed. Owners will be ready for bids in a few weeks.

Apartment and Store, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner's name withheld. Brick, concrete and stone, 4 stories, 100x50 feet, Barrett Spec. roof, hardwood floors, roof ventilators, concrete foundations, hot water heating, electric lighting, tile and marble work, plate glass. Preliminary plans in progress.

Residence, Croquet, Minn. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, H. C. Hornby, Croquet, Minn. Hollow tile and stucco, 2½ stories, 70x30 feet ,slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Owner will take bids in two weeks.

Miscellaneous Contracts Awarded

Dormitory Building, Sevierville, Tenn. Associate architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia, and James Russell Harris, 1123 Broadway, New York City. Owners, Murphy College, care of Dr. Bishop, Sevierville, Tenn. Brick, 2 stories, 75x156 feet, electric lighting, oak and pine floors, steam heating. Contract awarded to McCann & McCann, Sevierville, Tenn.

Clock Houses (2), Sparrows Point, Md., $40,000. Architect, private plans. Owners, Bethlehem Steel Co., Sparrows Point, Md. Brick, concrete and steel, 1 story, 49x29 feet each, slag roof, cement floors, hollow tile, metal lath, dampproofing, concrete foundations, steam heating, floor hardener, iron work. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Warehouse, Guilford avenue and Saratoga street, Baltimore, Md. Architects, Haskell & Barnes, 301 North Charles street, Baltimore, Md. Owners, Whitaker Paper Co., 415 Guilford avenue, Baltimore, Md. Reinforced concrete, 8 stories, 100x186 feet, slag roof, electric lighting, rolled steel sash, rolling steel doors, plumbing. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

THE MECHANIC OF TO-MORROW

(Continued from Page 812.)

and launches him upon the sea of professional activity where he cruises about, sails all drawing, plenty of practice, for the princely yearly return of some $2,000 or $3,000, while dad himself, pointing with pride to his son, the doctor or attorney at law, nonchalantly draws some $10,000, $20,000, $50,000 or $100,000 as the harvest of his efforts in one of the more plebeian occupations of men. This is a most ridiculous attitude of mind.

Furthest from the writer's thought would it be to in any way belittle to the slighest degree the value of a college education; the importance of a well-trained mind cannot be over-estimated and any lad who by hook or by crook can get those years in college will come out with an understanding of life and the things worth while which would be difficult of securing in any other manner.

Imagine, if you can, the possibilities of a growing and thriving busness built up by the painstaking care of a father through years of honest dealing, with a reputation for quality production envied by contemporaries; imagine such a business coming, in course of time, under the management of a man fitted psychologically for its demands, and college trained. Wouldn't you look for something worth while to come from such a condition? I think your answer to this would be yes.

Prof. S., my friend and president of a Western college, a short time since, answering my question, "What are you training your boys for, in order that they may acquire monetary success?" said: "Business; of course we teach the professions, but if a lad looks forward to the accumulation of wealth he had better go into business of some sort." My quarrel is not with this but with the use it is put to when secured.

The possibilities of business, and particularly the building business in general, are very much overlooked by college men, and yet there is probably no phase of human endeavor more necessary than this. People and business must always be housed and expanding enterprises constantly need additional room.

Now, you fathers of sons, why not *your* business? It has provided you with a living and more for years; your ability to send your boys to college is the result of this business that you belittle, just because, to your way of thinking, it is a tough old game. Teach your boys the nobility of a useful occupation, teach them to believe in it as a means of doing good in their day and generation. Let them realize that the possibilities for success in this craft of yours are great and show them that to make that success will call for all the fight they have in them and the exercise of all the gray matter acquired during their school days; and above all teach them "to do good, to fight hard and play fair." So much for the attitude of the employers—being ourselves. Now look at the matter from another point of view.

The youth of America have for some time evinced a dislike for manual occu-

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pation. In a little town not fifty miles from where I write is a deplorable illustration of energy and power gone to waste. The principal industry is one of manual occupation, in short, fishing on a large scale, a hard, disagreeable occupation we must confess. The sons of fishermen, unwilling to go into this work, go to high school and quit, and any day upon the streets of this town may be counted scores upon scores of boys, graduated from high school, loafing about the street, while their fathers, out upon the blue Atlantic, turn the bows of their sloops and schooners homeward with some ten or fifteen thousand dollars worth of fish in their holds. So, I ask you all, is an educated loafer better or more useful in the scheme of things than a financially independent fisherman?

We have been living under some false standards which now need to be changed. Too much emphasis has been placed upon the genteel professions. The manager of a bucket shop, often selling worthless securities, has occupied in many cases a higher place socially than has our biggest man in a legitimate buildng business, and we are somewhat responsible for this false attitude of mind.

The $1200 a year bank clerk looks down upon the $2700 a year journeyman carpenter or plumber and strange to say the journeyman looks up to the bank clerk, and this follows way up, or down, through the various professions; but note this: among my friends, and I believe your experiences will coincide with mine, are professional men of real ability and prominence, and yet financially I would be unwilling to change places with them and I am simply a member of one of the building trades.

New emphasis and added dignity must be placed among the the basic industries of men. We need a revival of the Pride of Craft. Young men of intelligence should be induced to enter our trades, and then be trained with an eye to the future. We have been in most cases unwilling to take up the responsibility of training apprentices; the result has been a multitude of hack workmen whose biggest interest has been the pay envelope. Their hearts are not in their work, and as a consequence, quality that goes with the endeavor of a man who loves his calling has been missing.

I sat one night as one of a group of men in the building business. The shortage of labor was being discussed and some of the far-seeing men brought up the question of the future mechanic and where he was to come from. There was not in one single shop represented by those present an apprentice serving his time, and the attendance was of goodly size.

The advisability of establishing an apprentice system was thoroughly discussed and the question put: "How many men here would take apprentices?" The count revealed two. The apprentice, as we well know, is not under present labor conditions a great asset, but we must, if we have the welfare of the business at heart, consider him potentially.

We must choose now whether we shall have, in the days to come, mechanics or Jacks of all trades and handy men. The various building industries are going to be carried on—on that point there can be no debate.

There is much to be said regarding the training of apprentices; many of the things, hard conditions, under which we operate, would today be unknown if, twenty years ago, the young men coming into the trades had been chosen wisely, trained conscientiously with a sense of fairness, recognizing their rights as future men of the business; and had received and been given just a glimpse of the various trades not wholly as trades but as branches of business, governed by business laws. Instead of this their training was left entirely in the hands of men as unfamiliar with business laws as they themselves, men who saw only an apparently well-to-do employer whose activities occurred out of sight of the men, and who looked easy money and plenty of it.

This fostered a spirit of inequality in the balance of things, laid no stress upon business ability and created from the ranks of boys graduating in a few short years into masters, a competition so keen and destructive that the building trades have not reached their proper standing in the business world today.

In closing, then, my plea is for an intelligent campaign in the interest of the future welfare and dignity of the building trades and the placing in our thoughts and words, of these trades in their proper place of importance to the needs of the men. Of great importance is the securing of the best of young American manhood to enter these trades and, finally, giving them a training which shall make them worthy of a great life's work and one which shall reflect credit upon their teachers.—*Builders' Journal.*

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

PAINTING DEFECTS AND REMEDIES

BY JOHN B. ARMSTRONG

NINE-TENTHS of the troubles which come up in regard to painting are due either to the use of a paint unsuited to the purpose or to the use of the right paint in the wrong way. There is nothing connected with building which is more puzzling and mysterious to the average house owner, and in the great majority of cases the whole subject of painting is left to a builder or to a painting contractor.

It is perfectly understandable that a paint which might be very well adapted for one purpose would be hardly suited —and possibly not suited at all—for some other purpose. In these days when many painters and painting contractors have come to understand very well the uses and limitations of paints which they mix themselves, and where each of the great concerns which produce ready mixed paints offer a paint particularly adapted for almost every conceivable purpose, there is ample range for choice,

After all, the purpose of one paint may be quite different from that of some other kind; thus the purpose of a paint made to be used upon the outside of frame houses, is first of all, to protect the wood by preventing its being reached by dampness, and its composition is made with a view to its being subjected to extremes of heat or cold or to the wet caused by rain, snow or sleet. Quite different, however, is the case of paint which is made to be used upon the inside woodwork, or inside plaster walls. Its purpose is almost wholly decorative,and since it will be called upon to stand no test in the way of moisture, heat or cold, its composition will naturally be quite different. Thus, it would be a mistake to use for exterior purposes any of the many excellent flat paints composed largely of lithopone upon the market which are intended primarily for interior use, since they are not intended to withstand the severe climatic conditions which an outside paint must endure. And yet there are customers to whom any and every variety of paint means much the same thing, and instances are on record where a painter has been compelled to use a paint which even common sense would show to be wholly unsuitable to the purpose in hand.

But perhaps the most fruitful source of painting troubles is the neglect to properly prepare the surface to be painted. Many a layman seems to think that to paint a wall or anything else, one has

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only to apply paint with a brush, but any practical painter could point out to him that the surface must first be thoroughly dry, cleansed of all grease or dirt, previous coats of paint, if any, often entirely removed, and the surface often coated with a primer—all this as a preparation for applying the paint proper.

Another cause of much trouble is due to the fact that often a work must be done with such haste that one coat of paint is applied before the preceding coat is thoroughly dry. It seems to be impossible to convince some customers that because the surface is not sticky or "tacky" to the touch it does not follow that what is just beneath the surface may not be thoroughly wet. The customer, in nine cases out of ten, insists that the new coat of paint be put on, and later on, when the paint "checks" and there begin to appear fine cracks or lines upon the surface, the blame is usually attributed to the carelessness of the painter or to some defect in the material used—very often to both. To get a satisfactory and really lasting result sufficient time must be given for the undercoat to develop at least a relative dryness, and far better results than are now obtained would be had if customers could be induced to allow one coat of paint to stand for at least one week before another coat is put on. Unless this be done there must always be some sacrifice of durability and, consequently, of satisfaction.

Much, also, depends upon the choice of the material used as a "primer"—in fact some one has said that of all the coats of paint which may be put on, the primer is the most important. When painting upon any soft wood, use must be made of a primer which has been sufficiently thinned out to enable the liquid to penetrate into the surface and to fill the fiber or pores to the point of "satisfying" the wood. Don't be afraid of thinning the paint used as a primer with too much linseed oil, for unless it be thin enough to be absorbed readily into the wood, the duty of the primer is not done. Since the wood will continue to absorb future coats of paint, their full body cannot be brought out and the appearance of the finished work will suffer.

Somewhat different, however, is the plan to be adopted where the wood to be painted is of any of the close-grained and therefore non-absorbent varieties. A larger proportion of turpentine must be used to help in killing the sap which often exists and to give a greater degree of penetration. It is hardly necessary to add that all knots or spots where pitch or sap appears are to be given a coat of shellac. Unless this be done the pitch will almost surely penetrate any number of coats of paint and spoil, or at least mar, the finished result.

It has just been said that any surface to be painted must be thoroughly dry. It is scarcely necessary to point out to a practical painter the truth of this statement but, strange as it may seem, some people have the mistaken idea that paint can be successfully applied to a wet surface merely because the painting when completed will be much exposed to dampness. The owner of a houseboat was once found to be attempting to paint the hull of his boat which had been but very recently removed from the water, and it took considerable discussion to convince him that no paint, of any kind or nature, can be successfully put onto a surface not thoroughly dry.

When it comes to the question of removing such remains of old paint as may be upon a wooden surface to be repainted, it is hard to make any rule which will fit every case. The danger is that, when painted over with new paint, the fraygment of the old paint may break loose from the wall and fall to the ground, exposing the bare surface of the wood. It would be far better to guard against possible trouble by removing the old finish by use of a heavy wire brush, by scraping, or by the use of any of the paint and varnish removers which so softens the paint that it can be easily washed off. Some one has suggested a test which may be applied to be sure that there will be no peeling off of an old coat of paint. With the blade of a pocket knife or a putty knife, merely try to pry off the old paint in several places to see if it "scales" easily and, if it does, examine the inner surfaces of the scales or fragments. Should the surface show a fine powdering or crumbling substance, it is safe to assume that the vitality of the priming coat has given way, and no new paint will adhere to the surface. Better remove it all and begin again.

It oftens seems that the painting of a house is about the very last detail which should be "skinned" or done in such a way that it soon has to be done over again. There are plenty of details to a house which are important, but which are never seen, while with painting the exact reverse is true. Strictly speaking, one never sees a house, a floor or anything else which has been painted; one sees merely the paint which *covers* the house or floor and which, by covering it, protects it from dampness and deterioration and thus preserves its life.

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If friendship's worth having, it's worth insuring; don't make it a bargain counter where you always get the bargains.

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The building permits issued in 21 cities of various sizes, widely distributed over the country, show that, in values, housing construction formed 36 per cent. of all buildings in 1913; 21 per cent. in 1918, and 27 per cent. in 1919. The amount of housing construction in 1913 was exceeded in 1918 in only two of the 21 cities, and in 1919 in only six, in spite of the "build-a-home" campaign. The falling off in house construction, continues the Forest Service Report, generally appears to have been particularly marked since the later part of 1919, when the greatest upward movement of lumber prices began.

The Untied States Housing Corporation states that normally 30 per cent. of the number of buildings constructed are dwellings; that in 1919 dwellings were only 15 per cent.; that 1,000,000 families in the United States desired houses even before the war; that the shortage has since increased very rapidly; that there were 70,000 houses built in 1919, when to have met the requirements there should have been 500,000; and that in 1890 an average of 110½ families occupied 100 homes, but today 121 families occupy 100 homes.

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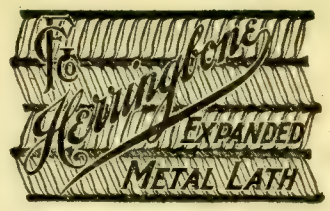
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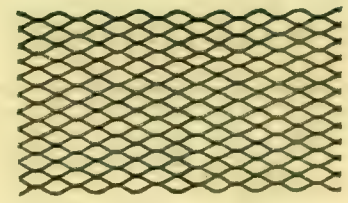
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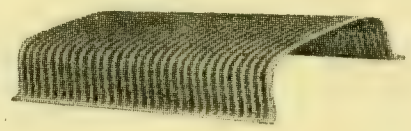
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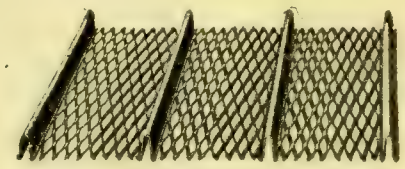
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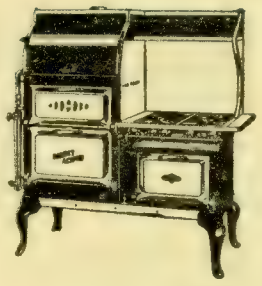
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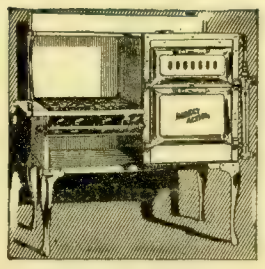


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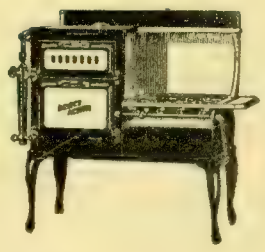
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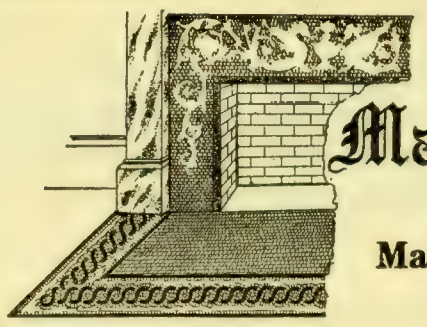
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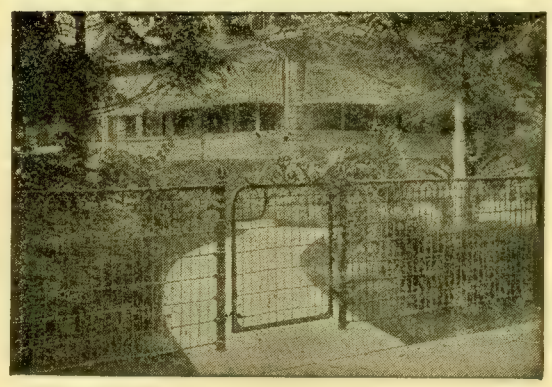
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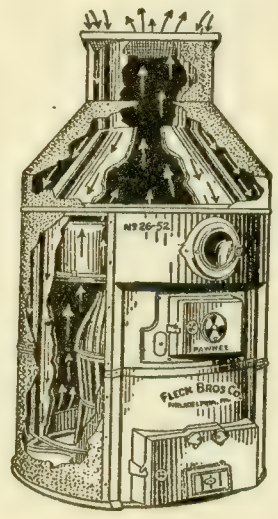


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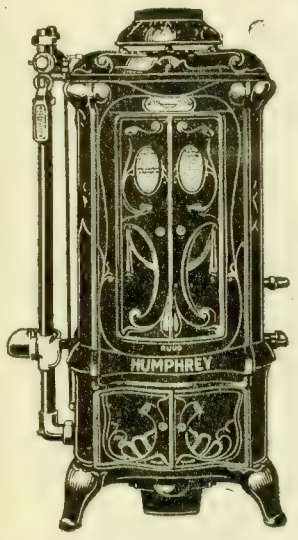
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 39

PHILADELPHIA
September 29, 1920

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As The Editor Sees It

FRANKLIN K. LANE, former Secretary of the Interior, issued recently a statement, making public a summary of what he calls "the first comprehensive, carefully-made and approximately accurate picture of industrial, argicultural, financial and political conditions throughout the United States."

It discovers in the foreground, he says, that both major political parties have overlooked the greatest issue in the public mind, which is the cost of living. It also shows, he states that the country is on a sound economic basis, with the wave of extravagance subsiding,saving increasing, wholesalers and retailers optimistic over the winter outlook, and a growing disposition for hard work, although the individual productivity of labor is not yet showing much evidence of increase.

Mr. Lane's statement summarizes a survey made through 900 field represetatives of the Fidelity and Deposit Company of Maryland and covers every section of the country. Manufacturers, merchants, chamber of commerce, bankers, lawyers, business men and farmers were questioned in the effort to mirror the immediate, economic and political situation and obtain a concensus of representative opinion as to the future. The replies from all localities were made simultaneously by telegraph.

In a preface to his analysis of the survey, Mr. Lane says:

"With the Presidential election but six weeks away and the winter rapidly approaching many thoughtful people stand hesitant and undecided, having difficulty because of the general lack of knowledge of business conditions outside their own locality or interests. The general tendency has been to see what the next man thinks, with the uncomfortable feeling that his guess is no better than another's. I believe for this reason, the picture, presented in the tabulated analysis made by the Fidelity and Deposit Company, is of interest to every business man and other voters. While it is not, of course, perfect in detail and exact in prophecy, it is as clear and valuable a conspectus of present conditions as can be gathered."

Under the heading of industrial condition, Mr. Lane says: "Economically, the United States is shown to be better off than any other country in the world. There is no evidence of idleness. Our people have the opportunity to work and are at work.

"There is no shortage of raw material sufficient to curtail production reported from many of the nine geographical districts into which the country was divided for the purpose of the survey. Only in the district including Minnesota, the Dakotas, Iowa, Kansas, Nebraska and Wisconsin is there evidence of a lack of orders New England industries report a number of cancellations, but there, as elsewhere, manufactures are well filled with calls for their products.

"Transportation conditions are improving everywhere and a substantial reduction in the freight car shortage is reported in every district except in the Rocky Mountain States, in the Southwest and in the district including Kentucky, Tennessee, Alabama and Mississippi, although an improvement is noted in the latter district.

"A shortage of coal and the failure of labor to increase individual productivity appear to be the only two unfavorable aspects in the immediate industrial situation. The Rocky Mountain and Pacific States report a sufficient supply of fuel. All other sections of the country are feeling the shortage, but it is apparently least felt by the South Atlantic States.

"Although labor is costing still more than it did last year, it apparenty is producing no more. Wages have advanced from 10 to 50 per cent. in the last twelve months and yet nowhere is there reported increase in productivity per man. I am not expecting that the cost of labor will fall off even in the worst time to its pre-war stage, for I believe that the real differential between directing labor and manual labor will never again be as great as it has been.

"So far as the distribution of labor is concerned, the situation nationally appears to be well equalized. A shortage

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of labor is found only in the Middle and South Atantic States and this is largely of unskilled workers. In the rest of the country the demand and supply appear balanced. Only in some sections of the Middle Atlantic States is any unemployment reported and this is in certain of the skilled trades, chiefly the building and shipbuilding trades.

"An important disclosure of the survey is the seriousness of the housing situation. In many of the larger industrial centres where the shortage has been most acute, the investigation of the Fidelity and Deposit Company has disclosed building operations to be decreasing instead of increasing.

"The call for buildings comes loudest from the essential places of manufacture, rather than from the retail centres, and is for low-priced dwellings. Building construction is increaing in New England, but he bulk of the construction is of factories, warehouses and stores. New York, Pennsylvania and most of the other great industrial states of the East and Middle West show a falling off in building operations. There is improvement in the housing situation in Southern and Pacific Coast industrial centres, with special emphasis on the erection of workmen's homes.

"In no section of the country did the investigators find sentiment in favor of government ownership of the railroads; and everywhere better tranportation conditions are reported.

Agriculture is generally recognized as the backbone of the country, and the farming situation is excellent; from no section has an unfavorable report been received. Our farmers appear everywhere to be in too happy a mood to permit at this time the cynicism, 'the farmer is always grumbling.' They are well supplied with funds from the sale of this year's crops, but they are wise in that they know that more favorable marketing conditions can be created.

"The recent drop in grain prices is reported to have had no effect except in the Rocky Mountain States. Farmers of Illinois, Indiana, Michigan, Wisconsin and other Central states are witholding grain.

"In the financial field, money is tight. That may mean several things: first, that the people want money badly to put into producing activities; second, that the banks attempt to get whatever the traffic will bear, shearing close to the skin; third, that there is an adequate supply of money; or fourth, that those who have money lack confidence.

"There are other reasons, no doubt, and among them that as the dollar now buys less than heretofore, people with money wish to charge more for the service that money gives. No one can accurately say which of these causes is the most important factor, but probably all contribute to the present situation.

"The telegraphic reports from every section of the country state that the banks are well loaned up, although money is available in the East and Central districts at from six to eight per cent. interest. The Southwest, Rocky Mountain and Pacific States report the highest interest rates, averaging from 8 to 10 per cent., and in the Mountain districts as high as 12 per cent.

"There is great encouragement, however, to be drawn from the fact that in only one of the nine geographical divisions, the Rocky Mountain, has here been a decrease in bank deposits during the last six months. While the general increase includes corporation deposits, individual savings accounts show a more marked improvement everywhere. This seems to show clearly that the orgy of spending and extravagance is over.

"Discounting of bills by industrial concerns is universally reported. Except in the Middle Atlantic, Southwestern and Pacific Coast states, manufacturers appear to be carrying large amounts of customers' paper.

"The country does not like the present taxation system. The Excess Profits Tax is in bad favor everywhere. Opinion is divided, however, as to a substitute. In the East and Central West, sentiment runs strongly for a sales tax, but elsewhere, opinion as to a substitute is divided.

"We are not yet masters of the art of distribution of products. The fact that the farmers uniformly report a desire for some co-operative method by which their products can be brought to consumers means that this problem is of the greatest importance. But it is not for the farmers' benefit primarily that such a movement must quickly culminate in action. The consumer feels that somewhere between the farmer and himself, too much is taken for a service of comparative insignifiance in contrast with that which the producer himself renders.

"The farmers apparently are not alone in desiring co-operative action. The survey shows opposition to co-operative movements only in the New England and Pacific Coast districts. Sentiment is divided in Ohio, Illinois, and the other North Central Western States, but favorable in the Middle Atlantic, the South Central and Southern States.

"Politically the replies indicate that it is too early to tell what the outcome of the November election will be. Three months ago, there was a stronger Republican sentiment than there appears to be now. The trend has been, and is, Republican. What it will be in November these gentlemen do not prophesy.

"The large outstanding fact developed by the Fidelity and Deposit Company seems to be that the greatest issue in the public mind is being overlooked by the campaigners—the high cost of living. I think this conclusion might well be justified, but the blame should not be cast upon the producer, and certainly the farmer has not received his share of the wealth which he creates.

"The cost of living and foreign rela-

(Continued on Page 839.)

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Store and Apartments (alts.), Southwest Corner Thirteenh and South streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Joseph Goldberg, on premises. Plastering, metal lath, fire escape, iron work, roof repairs, marble and tile work, metal ceilings, hardwood and composition floors, heating, repairs, electric lighting. Architect taking bids, due October 1st. Smith-Hardican Co., 1606 Cherry street; Geo. H. Evans Co., 45 North Thirteenth st.; W. O. Springer, 2004 Naudain street; Hottinger & Yeager, 313 West Oxford street; M. Yellin, 712 North Franklin street, and H. Seidman, 1312 North Sixth street, are figuring.

Building (alts.), Southwest Corner Broad and Spring Garden streets, $15,000. Architect, private plans. Owner, Baldwin Locomotive Works, on premises. Repairs to roof. Owners will build.

Residences (4), Casimer, East of Salmon street, Philadelphia, $11,000. Architect, private plans. Owner, Lewis Ahlers, Jr., 4433 Salmon street, Philadelphia. Brick, 2 stories, 14x42½ feet, slag roof, hot air heating. Owner will build.

Residence (alts. and add.), 7162 Ridge avenue, Roxboro, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, L. E. Adams, on premises. Brick and stone, 2 stories, hot water heating. Architect taking bids due September 30th. Graham & Wells, 3649 Filbert street; William J. Gruhler Co., 219 High street; F. Elvidge & Son, 5522 Germantown avenue; Samuel Harting, 20 East Johnson street; William H. Eddleman & Son, 453 Green Lane, Roxboro, Philadelphia, and Frank E. Wallace, 1220 Chancellor street, are figuring.

Mill Building, Kensington, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, A. Taylor Co., care of architect. Brick, 1 story, 60x200 feet, concrete foundations, wood trusses, slag roof, steam heating, electric lighting, rolled steel sash, rolling steel doors. Plans in progress.

Church (alts.), Mt. Pleasant and Germantown avenues, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Mt. Airy Presbyterian Church, care of Rev. J. Calhoun, on premises. Changing basement into Sunday school rooms, indirect system of heating, electric lighting, cement floors, plastering, battleship linoleum, mill work. Architect taking bids due as soon as possible. Thomas C. Trafford, 1613 Sansom street, and John Schnable Co., Denckla Building, are figuring.

Store and Apartments, 5617 Market street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Gellgood Bros., on premises. Interior alterations. Too early for details. Plans in progress.

Stores (3) and Dance Hall, Broad and Erie avenue, Philadelphia. Architect, Gabriel B. Roth, 1619 Chestnut street, Philadelphia. Owner, Paul A. Rinck, 3537 Germantown avenue, Philadelphia. Brick, steel and terra cotta, 2 stories, 61x164 feet, slag and tile roof, maple and pine floors, metal ceilings, hot water heating, electric lighting, tile work, metal ceilings. Architect is ready for sub-bids.

Factories (alts. and add.) and Engine Room (alts.), Crawford street, East of Ridge avenue, Philadelphia, $43,000. Architect, private plans. Owners, J. & J. Dobson, 911 Chestnut street, Philadelphia. Brick, 4th story add., 86x140 feet, slag roof, brick, 1 story, 28x40 feet, and general alterations. Owners will build.

Foundations for Turrets and Crane Track, Spec. 4299, Navy Yard, Philadelphia. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Concrete and steel, 400x44 feet, 282x37 feet, concrete piles, iron railings, 634 feet of crane track, electric conduit system. Lowest bid submitted by Arundel Corporation, Finance Building, Philadelphia, $214,000, to be completed March 15, 1921.

Store and Residence (alts. and add.) to Store and Lodge Rooms, Sellers and Paul streets, Frankford, Philadelphia. Architect, Karl F. Otto, Foulkrod and Oakland streets, Frankford, Philadelphia. Owners, Washington Camp, No. 101, P. O. S. of A., 4602 Frankford avenue, care of Chairman of Building Committee, Joseph Davies, Ditman and Margaret streets, Frankford. Brick, 3 story add., 32x32 feet, slag roof, pine floors, cement work, stone foundations, hot water and pipeless heaters, plumbing, kalamein doors and sash, fire tower, reinforced concrete stairs. Owners will be ready for bids in one week.

Residence (alts. and add.) to Apartments, 3111 North Broad street, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, O. Haney, on premises. Brick, 3 stories add., 16x40 feet, slag roof, hardwood floors, structural steel work, hot water heating extension, electric lighting extension, mill work, plastering, ornamental iron work. Owner taking bids due October 1st. M. J. Benamy, 3042 West York street, and Bilinsky Bros., 2506 South Sixth street, are figuring.

Factory (alts.), 831 Arch street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. Brick, 5 stories, 22x160 feet, general renovation of entire building, reconstruction of floors, passenger elevator, steam heating, electric lighting, fire tower. Plans in progress.

Garage, 3056-58 Salmon street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, John Borek, 3025 Richmond street, Philadelphia. Brick, 2 stories, 40x93 feet, slag roof, cement and pine floors, steam heating, electric lighting, fire doors, elevator (electric), concrete foundations, reinforced concrete work. Plans completed. Architect is ready for bids.

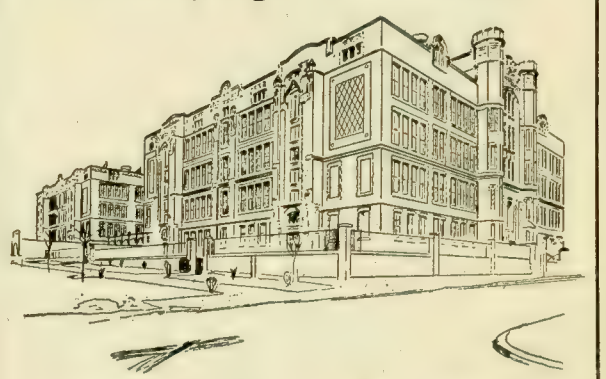
Stable, 1318-20 North Fourth street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, I. Brassosky, 457 North American street, Philadelphia. Brick and steel, 2 stories, 40x100 feet, slag roof, plank floors, cement work, waterproofing, electric lighting, stone foundations. Plans in progress. Will be ready for bids in one week.

Store and Apartments, 4958-60 Lancaster avenue, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, H. Porter, 4950 Lancaster avenue, Philadelphia. General alterations, removing partitions in stores, hardwood floors, mill work, electric lighting, hot air heating, marble work, store fixtures, plate glass, flush bulks, metal ceilings, cabinet work. Owner is taking bids. Frank Meingart, 5807 Hazel avenue, and I. Rottman, care of owner, are figuring.

Machine Shop (add.), (2), Fox and Roberts avenue, $3,000. Architect, private plans. Owner, Vim Motor Truck Co., Twenty-third and Market streets, Philadelphia. Brick, 1 story, 8x42 feet, and 1 story, 18x24 feet, slag roof, cement floors. Owners will build.

Warehouse and Garage, 906-10 Hamilton street, Philadelphia, $10,000. Architect, pri-

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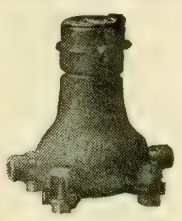
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vate plans. Owners, Armour & Co., 917 Noble street, Philadelphia. rick and steel, 1 story, 55x88 feet and 35x30 feet, slag roof, steam heating, electric lighting, cement floors, skylights and ventilator. Owners will build.

Property (alts.), southwest corner of Thirteenth and South streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Joseph Goldberg, on premises. Plastering, metal lath, fire escape, iron work, roof repairs, marble and tile work, metal ceilings, hardwood and composition floors, heating repairs, electric work. Architect taking bids, due October 1st. H. Seidman, 1312 North Sixth street, additional bidder.

Moving Picture Theatre, Rising Sun avenue and Fanshaw street, Philadelphia. Architect, H. N. Miller, Engr., Middle City Building, Philadelphia. Owners, Suburban Amusement Co., on premises. Brick, steel and concrete, 1 story, 140x80 feet, slag and concrete roof, concrete floors, metal lath, roof ventilators, metal ceilings, waterproofing, iron work, tile and marble work, stone foundations, steam heating, electric lighting. Engineer taking sub-bids, due as soon as possible. (Bond.)

Lumber Shed, Twenty-ninth and Ellsworth streets, Philadelphia. Architect, E. Allen Wilson, 1201 Chestnut street, Philadelphia. Owner, John J. Wilson, on premises. Frame, 2 stories, 48x58 feet, slag roof, concrete foundations. Owner is ready for sub-bids.

Bulkhead (repairs), Cherry street, Schuylkill River, east side, Philadelphia. Architect, Department of Wharves, Docks and Ferries, Bourse Building, Philadelphia. Owners, Department of Wharves, Docks and Ferries, care of George F. Sp[illegible] Director, Bourse Building, Philadelphia. [illegible]eral repairs, timber, piling, etc. Owners [illegible]ing bids, due October 8th at noon.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Cumberland Exchange, Emerald and Firth streets, Philadelphia. Architect, private plans. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick work, 3 story building, general alterations, steam heating, electric lighting, hollow metal sash, rolled steel skylights, kalamein doors, metal ceilings, mill work, hollow tile, metal lath, cafeteria and kitchen equipment. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Bank Building, Kirkbride street, Bridesburg, Philadelphia, $6,000. Architect, private plans. Owners, Bridesburg Branch of the Oxford Bank of Frankford, care of Oxford Bank, Overington street and Frankford avenue, Philadelphia. Brick and steel, 1 story, 16x32 feet, slag roof, stone foundations, pipeless heater, electric lighting, pine floors. Bond. Contract awarded to Rush Bros., 1006 Harrison street, Philadelphia.

Factory (alts.), Northeast Corner Stenton and Godfrey avenue, $9,000. Architect, private plans. Owners, J. & J. Dobson, Inc., 809 Chestnut street, Philadelphia. General alterations. Owners will build.

Garage, Oxford avenue, South of Loney street, Philadelphia, $7,000. Architect, private plans. Owner, Harry Fenton, Borbeck street, Fox Chase, Philadelphia. Brick, 1 story, 37½x96 feet, slag roof, cement floor, electric light. Contract awarded to Joseph Ashby, Fox Chase, Philadelphia.

Garage, Indiana avenue, West of Eighteenth street, Philadelphia, $6,000. Architect, private plans. Owners, C. H. White Sons Co., Eighteenth and Indiana avenue, Philadelphia. Brick and steel, 1 story, 42x37 feet, slag roof, cement floor, electric lighting. Contract awarded to Fred A. Havens Co., 845 North Nineteenth street, Philadelphia.

Stable (alts.), 1215-17-19 South Carlisle street, Philadelphia, $3,900. Architect, private plans. Owner, A. C. Callivin, 1220 South Broad street, Philadelphia. General alterations, cement work, mill work. Contract awarded to B. Shestack, 528 Reed street, Philadelphia.

Store (alts.) and (6) Garages, Sixty-second and Vine streets, Philadelphia. Architect, private plans. Owner, Caspar Heilich, on premises. Brick and steel, 1 story, 55x18 feet, slag roof, cement floors, stone and iron work. Contract awarded to Pierce-Henon, Inc., Bulletin Building, Philadelphia.

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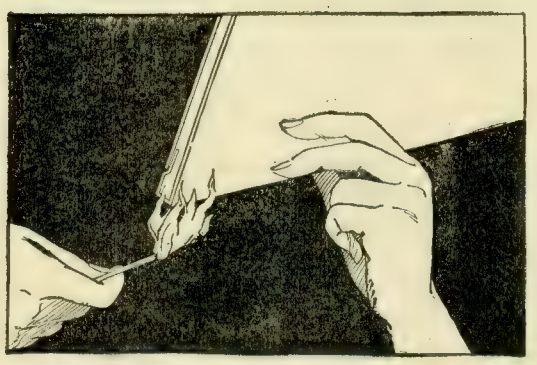
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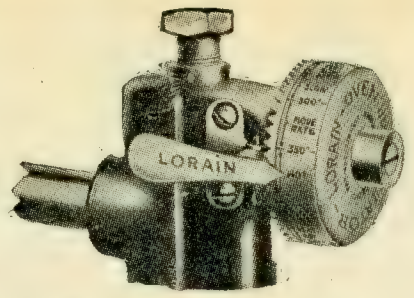
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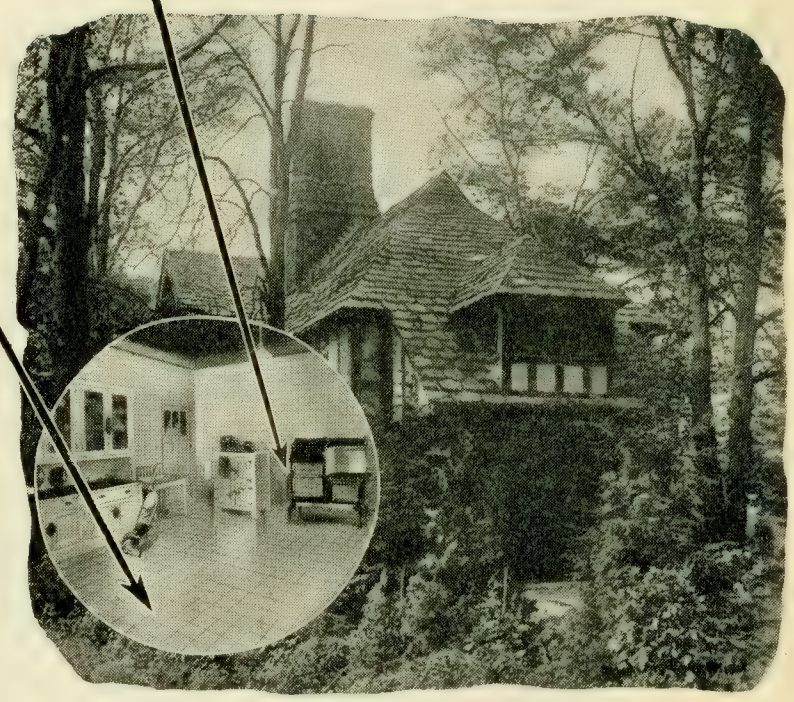
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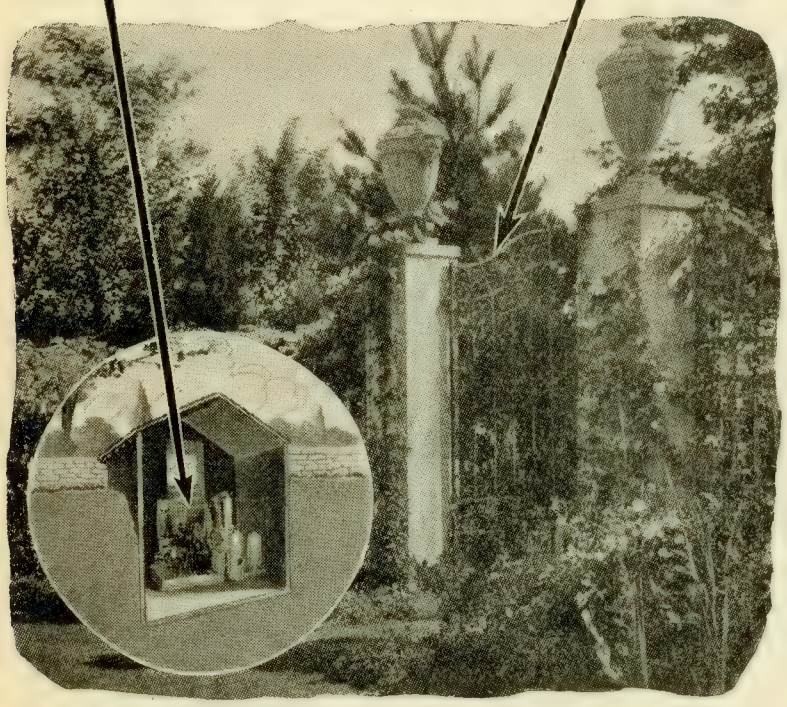
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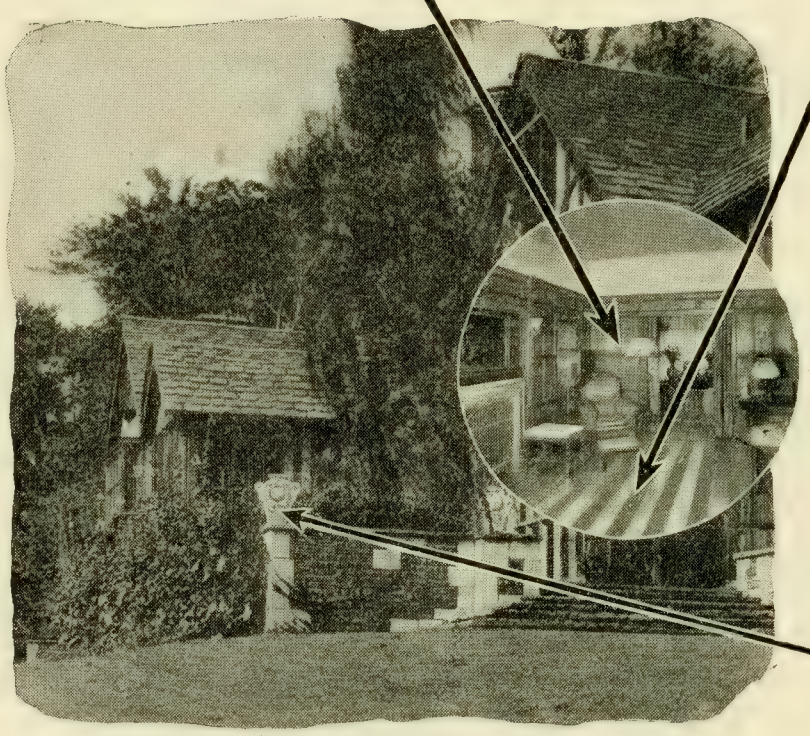
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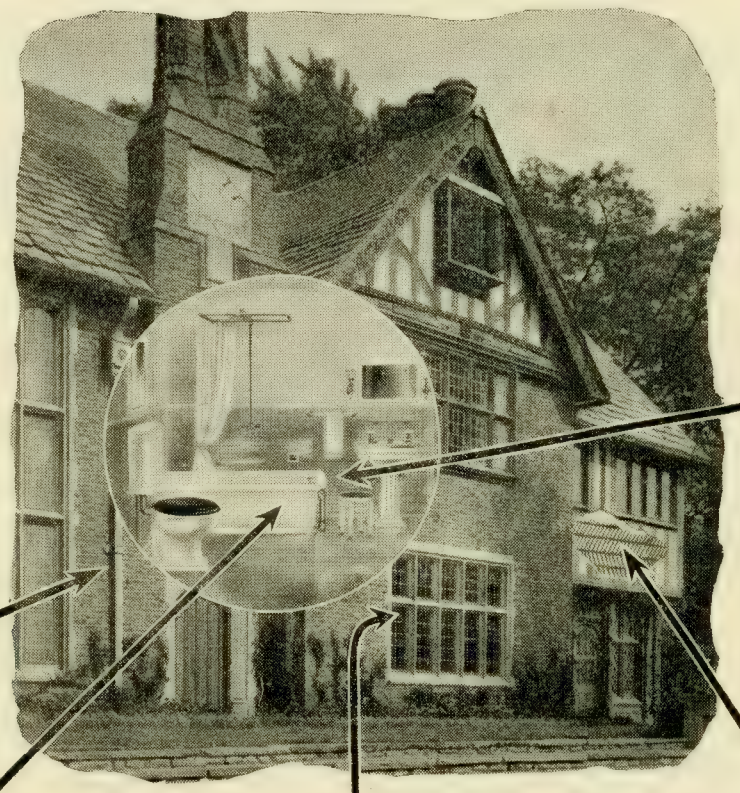
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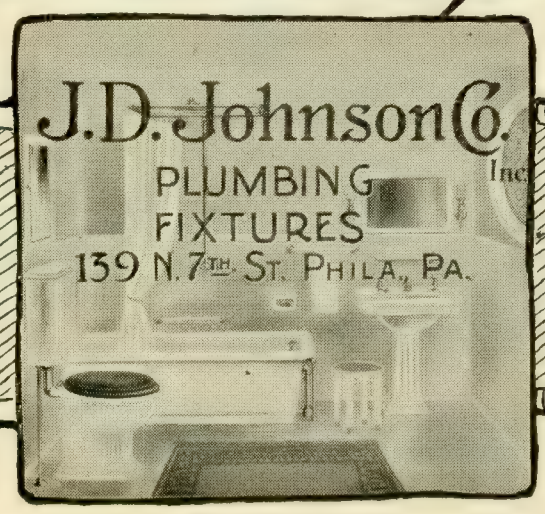


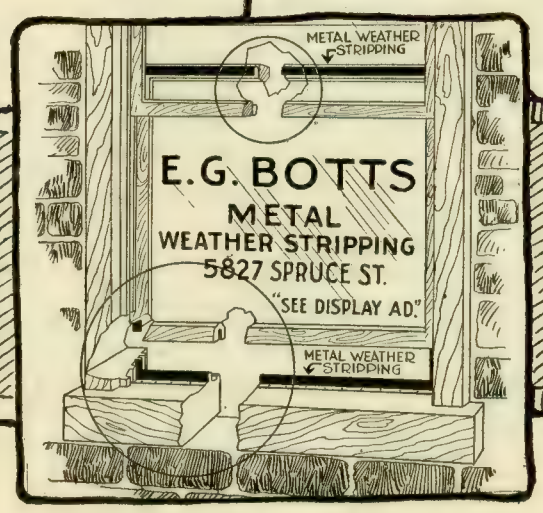


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street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Coroncos Bros., on premises. Brick (slow burning construction), 4 stories, slag roof, cement and pine floors, waterproofing (electric lighting, heating and elevator reserved). Contract awarded to Penn Const. & Eng. Co., 3840 Spring Garden street, Philadelphia.

Building (alts.), 260 South Seventeenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Francis X. Delaney, care of architect. Brick, 3 stories, 29x74 feet, general alterations, slag roof, brick work, electric lighting. Contract awarded to J. Jones Davies, 3931 Walnut street, Philadelphia.

Bank Building (alts.), 243 South Sixth street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Carpentry, mill work, plastering, plumbing, pine floors. Contract awarded to Pierce-Henon, Inc., Bulletin Building, Philadelphia.

Storage Building, Northeast Corner Eighth and Thompson streets, Philadelphia, $19,000. Architect, private plans. Owner, Thomas Mills Bros., on premises. Brick and steel, 2 stories, 24x68 feet and 33x39 feet, slag roof, steam heating, electric lighting, pine floors. Contract awarded to John R. Wiggins Co., Otis Building, Philadelphia.

Store and Dwelling (1) and Dwellings (6), 462-474 North Second street, $43,000. Architect, private plans. Owner, J. Edelstein, 435 Widener Building, Philadelphia. Brick, 2 stories, 20x60 feet and 16x27 feet, 13x22 feet, slag roof, hot water heating, electric lighting, hardwood floors. Contract awarded to M. Barkan, 926 Snyder avenue, Philadelphia.

Building (alts.), Southwest Corner Ninth and Walnut streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, M. Lifshetz, on premises. Carpentry, mill work, painting, glazing, brick work. Contract awarded to Harry Platt, 511 Fernon street, Philadelphia.

Residence (alts.), 1729 Arch street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, G. Percy Fox, 2524 Girard avenue, Philadelphia. Brick work, steel and iron work, carpentry, mill work, pine floors, tin roof, metal lath, tile and marble work, electric work. Bond. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia.

Building (alts.), 1029 Market street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Frank & Seder, on premises. Brick work, iron work, lumber, carpentry, metal lath, plastering, safety treads, plumbing, composition floors, electric work. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Store and Apartments (alts. and add.), Northeast Corner Fifty-second and Pine streets. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, H. Hayatian, 331 South Fifty-second street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, pine floors, mill work, stone foundations, hot water heating, electric lighting, terrazzo work, hollow metal skylights, metal cornice, flush bulks. Contract awarded to L. Goldberg, 920 North Forty-third street, Philadelphia, on a percentage basis.

Factory and Garage (alts.), 123-25 North Broad street, $75,000. Architect, private plans. Owner, C. B. Porter Co., 126 North Second street. General alterations, fire tower. Contract awarded to Stewart Bros. Co., 2528 North Orkney street.

Office (add.), Northeast Corner Twentieth and Indiana avenue, $4,000. Architect, private plans. Owner, Freihofer Baking Co., on

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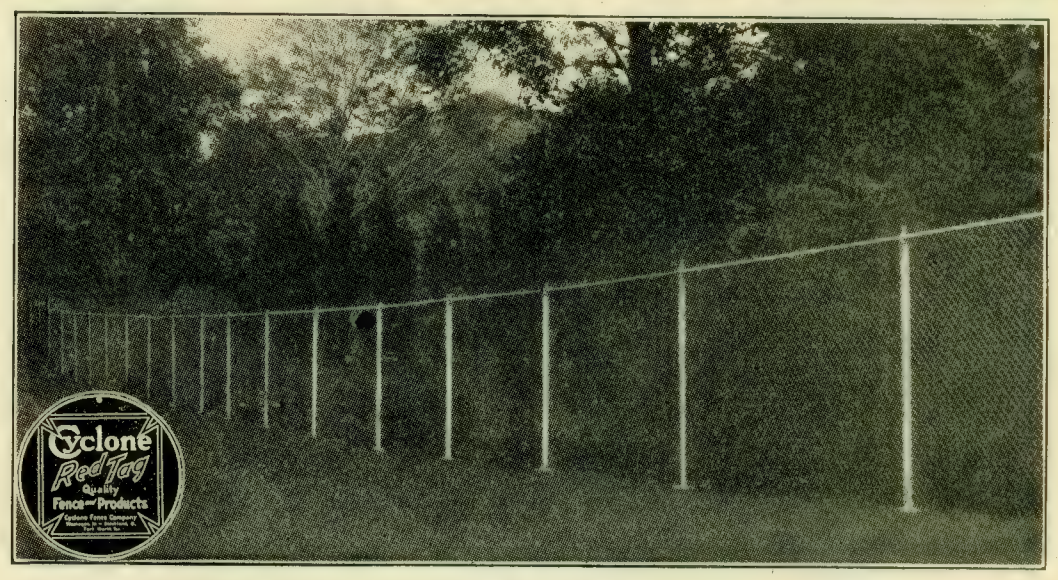
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premises. Brick and steel, 1 story, 20x75 feet, slag roof, maple floors. Contract awarded to P. Haibach Cont. Co., 1261 North Twenty-sixth street.

Church (basement), Sixty-first and Oxford streets, Philadelphia. Architects, Druckenmiller & Williams, 1527 Chestnut street, Philadelphia. Owners, Third Christian Church, care of Rev. T. E. Winter, Lancaster avenue and Aspen street, Philadelphia. Frame and plaster, 103x42 feet, shingle roof, pine floors, stone foundations, electric lighting, hollow metal skylights, iron work. Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Store and Office (alts. and add.), 1648 North Thirteenth street, Philadelphia, $3,700. Architect, private plans. Owner, Z. Silberman, Thirteenth and Columbia avenue, Philadelphia. Brick, 1 story, 3x14 feet, slag roof, electric lighting, pine floors. Contract awarded to K. Jaffe, 723 Oxford street, Philadelphia.

Store (alts.), 101-103 East Lehigh avenue, Philadelphia, $7,000. Architect, private plans. Owner, Frank P. Fifer, on premises. General interior and exterior alterations, flush bulks, plate glass, electric lighting, hardwood floors, painting. Contract awarded to Robt. Beatty ro., 2321 East Fletcher street, Philadelphia.

Factory (alts.), 2017-27 Ruth street, Philadelphia, $10,000. Architect, private plans. Owners, J. E. Strecker Co., on premises. Carpentry, millwork, steel sash, plumbing, general repairs. Contract awarded to Wm. Steele & Sons Co., 1600 Arch street, Philadelphia.

PENNSYLVANIA
Construction News

Garage, Wilkes-Barre, Pa. Architect, J. A. McGlynn, 294 North Washington street, Wilkes-Barre, Pa. Owners, South Wilkes-Barre Motor Car Co., Wilkes-Barre, Pa. Brick, 1 story, 75x100 feet, concrete foundations, slag roof, concrete floors, electric lighting. Plans in progress.

Convent (alts. and add.), Luzerne, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilke-Barre. Owner, L. G. Forte, Luzerne, Pa. Frame, 2 stories, 20x40 feet, shingle roof, pine floors, steam heat, electric light, interior and exterior alterations. Plans in progress.

Dairy, Milan, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick and concrete, 1½ stories, 30x50 feet, concrete foundations and floors, asbestos shingle roof, high pressure heat, electric light. Plans in progress.

Residence (add.), White Haven, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, sun parlor, plastering, tile work, breakfast room. Plans in progress.

School, South Washington street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, St. Mary's Convent, care of J. J. Curran, Wilkes-Barre, Pa. Brick, 1 story and basement, 63x75 feet, slag roof, hardwood



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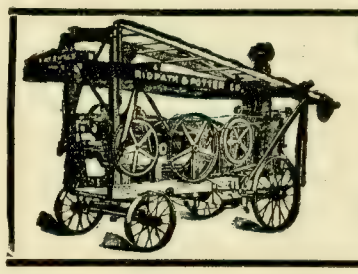
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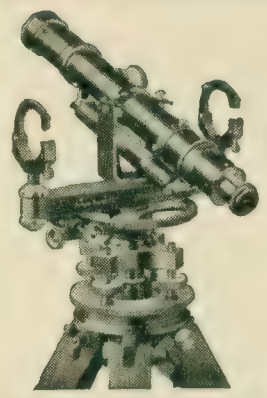


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floors, electric light. Architect ready for bids next week.

Garages (2), Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Mithneck & Lierman, North Wells street, Wilkes-Barre, Pa. Brick, 1 story, 22x80 feet, concrete foundations, slag roof, cement floors, steam heat, electric light. Owners ready for revised bids.

Passenger Station, East Greenville, Pa. Architect, Otto Herold, Reading Terminal, Philadelphia. Owner, Perkiomen R. R., P. and R. R. R. Co., Twelfth and Market streets, Philadelphia. Frame, 1 story, 19x83 feet, asbestos built up roof, pine floors, stone foundations, hot air heating, electric lighting. Bond. Iron work. Owners taking bids due October 2nd. H. E. Baton, 1713 Sansom street, Philadelphia; F. A. Havens Co., 845 North Nineteenth street; F. W. Van Loon, Perry Building, and Roydhouse-Arey Co., 112 North Broad street, and Chas. C. Pace, Merion, Pa., are figuring.

Vocational School, Unionville, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education of Pocopsin, Newlin, East and West Marlboro, Pa. Brick, 2 stories. Plans in progress.

Garage, Merion, Pa. Architects, Hance, Neely & Mitchell, 2126 Pine street, Philadelphia. Owner, William Hexamer, 1619 Chestnut street, Philadelphia. Brick, stone and stucco, 2 stories, 36x26 feet, slate roof, cement and pine floors, meta lath, plastering, stone foundations, hot water heat, electric lighting. Architects taking bids due as soon as possible. E. A. Wheeler, 122½ North Sixteenth street, and B. Ridgway Evans, Beechwood, Pa., are figuring.

Residence (alts.), Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Frank X. Renninger, Glenside, Pa. Mill work, painting, slate roof, hot water heating, electric lighting, tile work. Albert Zellfelder, 151 South Broad street, Philadelphia, only bidder, is taking sub-bids.

Bank Building, Media, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, Media Title & Trust Co., care of V. G. Robbing, president, Media, Pa. Brick, concrete, steel and terra cotta, 1 story, 84x44 feet, slag roof, cement, oak and tile floors, metal lath, safety treads, metal weather strips, marble work, electric lighting, steam heat, stone foundations. Architect taking revised bids due October 4th. John R. Wiggins & Co., Otis Building, and F. W. Van Loon, Perry Building, are figuring.

Residence, Summit Hill, Pa., $25,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, C. J. Dorrian, Summit Hill, Pa. Brick, 2½ stories, 45x40 feet, concrete foundations, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in two weeks.

Bank (add. and alt.), Wyoming and Spruce streets, Scranton, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owner, Peoples Saving & Dime Bank, Mr. Dunham, president, on premises. Brick, reinforced concrete, steel, 5 stories, 38x167 feet, Barrett roof, marble and maple floors, electric light, tile and marble work, hollow tile, metal lath, electric elevators, rolled steel sash and (3) skylights, roof ventilators, kalamein doors, bank fixtures, ornamental iron work. Architect ready for bids in three weeks.

Church and School, Coaldale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. P. Lisicky, Lansford, Pa. Brick, stone, steel and frame, 1 story and basement, 64x128 feet, slate roof, concrete foundations, steam heat, electric light, tile and marble work, hardwood floors, art glass, church goods, roof ventilators. Owner taking bids due as soon as possible. Andrew Bressman, Scranton, Pa.; Shamokin Lumber Co., Shamokin, Pa., and A. L. Graff, Tamaqua, Pa., are figuring.

Factory Building, Walnut and Wyoming streets, Scranton, Pa. Architect, G. N. Edson, Connell Building, Scranton, Pa. Owner, Standard Top Co., Scranton, Pa. Frame and shingle, 1 story, 40x90 feet, shingle roof, wood floors, electric. Plans in progress.

Chapel, Pocono Summit, Pa., $10,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. P. J. Bowlan, Mt. Pocono, Pa. Frame and shingle, 1 story and basement, 26x68 feet, stone foundations, asbestos shingle roof, maple floors, steam heat, electric light, tile work, art glass. Plans in progress.

Garage, Scranton, Pa. Architect, L. Reisman, Miller Building, Scranton, Pa. Owner, name withheld. Brick and steel, 2 stories, 40x175 feet, concrete foundations, slag roof, concrete floors, steam heat, electric light, hollow metal sash, roof ventilators, gasoline storage system. Plans in progress.

Garage, Clark and Summit streets, Scranton, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, T. A. Block, Hotel Jermyn, Scranton, Pa. Frame and stucco, 1 story, 24x32 feet, stone foundations, tile roof, concrete floors, hot water heat, electric light. Plans in progress.

Residence (alts. and add.), Clark and Summit streets, Scranton, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, T. A. Block, Hotel Jermyn, Scranton, Pa. Frame, 2 stories, irregular size, metal roof, composition floors, new plumbing, general interior alterations. Plans in progress.

Residence (alt. and add.), Carbondale, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owners, P. L. Hughes, Carbondale, Pa. Frame, 2 stories, irregular size, asbestos shingle roof, hardwood floors, electric lighting. Plans in progress.

Church (alt. and add.), Glenburn, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, Episcopal Cong., Rev. Houghton, on premises. Frame, 1 story, 38x28 feet, stone foundations, shingle roof, pine floors, pipeless heater, electric light, general interior alterations. Plans in progress.

Church (alts.), Honesdale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scran-

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ton, Pa. Owner, St. John's Church, Rev. J. J. Hifferon, on premises. General interior and exterior alts. Plans in progress.

Store and Apartments, Second and Presquisle streets, Phillipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, A. B. Curtis, Phillipsburg, Pa. Brick, 2 stories, 22x110 feet, general alterations, slag roof, vapor heating, electric lighting, flush bulks, plate glass. Owner is taking bids.

Assembly Building, Walnut and Hoyt streets, Kingston, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Wales Adding Machine Co., care of A. Smith, on premises. Steel, concrete, brick, 2 stories, 157x75 feet, concrete foundations, slag roof, hardwood and concrete floors, electric light (heat reserved), rolled steel sash. Architects have received bids.

Twin Houses (10), Lansford, Pa. Architect, private plans. Owner, Lehigh Coal & Navigation Co., care of builder. Frame and stucco, 2½ stories. 40x26 feet, concrete foundations, shingle roof, pine floors, pipeless heater, electric lighting. Tilghman H. Moyer, 824 Hamilton street, Allentown, is taking sub-bids.

Residence, Lansford, Pa. Architect, private plans. Owner, Lehigh Coal and Navigation Co., care of builder. Frame and stucco, 2 stories, 45x27 feet, concrete foundations, shingle roof, hardwood floors, hot water heat, electric light, tile work. Tilghman H. Moyer & Co., 824 Hamilton street, Allentown, Pa., is taking sub-bids.

Garage, Lansford, Pa. Architects, Tilghman H. Moyer & Co., 824 Hamilton street, Allentown, Pa. Owner, Lehigh Coal & Navigation Co., care of architect. Stucco, 1 story, 42x20 feet, concrete foundations, asphalt sihngle roof, cement floors, electric light. Tilghman H. Moyer, Allentown, Pa., is taking sub-bids.

Residence, Ridley Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, T. P. Ward, Delaware and Partridge avenues, Ridley Park, Pa. Frame, 2 stories, 21x42 feet, stone foundations, hot water heating, electric lighting, tile work, hardwood floors, shingle roof. Architect has received bids.

Store, Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, name withheld. Stone, 1 story, 20x60 feet, stone foundations, slag roof, maple floors, electric light, tile and marble work. Preliminary plans in progress.

Store Front, Scranton, Pa. Architect, A. J. Prawdzik, Scranton Life Building, Scranton, Pa. Owner, United Stores Co., Traders' Bank Building, Scranton, Pa. Structural steel, plate glass, copper work, cabinet work, leaded glass. Owner will take sub-bids.

Lavatory, Locker and Timekeeping Building, Bethlehem, Pa. Architect, private plans. Owner, Bethlehem Steel Co., South Bethlehem, Pa. Brick, 1 story, 60x51 feet, slag roof, concrete floors, roof ventilators, iron work, rolled steel sash, terrazzo work, stone foundations. Owner have received bids.

Road Work, various locations, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, Capitol Building, Harrisburg, Pa. Bids will be opened at 10 A. M., October 13th, at State Capitol Building. Forms and specifications free. Plans $2.50 per set, at State Highway Department, Harrisburg, Pa.

Allegheny County, Route 70, Cheswick Borough, 3,606 feet. One course reinforced concrete. Certified check $1,000.

Beaver County, Route 76, Hopewell Township, length 26,106 feet. One course reinforced concrete. Certified check $4,000.

Beaver County, Appli. 1,236, Economy Township, 3,641 feet. One course reinforced concrete or vitrified brick. Certified check $1,000.

Beaver County, Appli. 1,237, East Rochester and Freedom Boroughs, 4,375 feet. One course reinforced concrete or vitrified brick. Check $1,500.

Beaver County, Appli. 1,238, Rochester Township, 11,097 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $2,000.

Blair and Huntingdon Counties, Route 55, Tyrone, Spruce Creek and Norris Townships, 4,168 feet. One course reinforced concrete. Check $1,500.

Bucks County, Route 150, Tullytown Borough, 7,453 feet. One course reinforced concrete. Certified check $1,500.

Chester County, Route 142, Downington Borough, 8,917 feet. One course reinforced concrete. Certified check $1,500.

Clinton County, Route 58, Flemington Borough, 4,265 feet. Either bituminous surface course on concrete foundation and Hillside vitrified brick or one course reinforced concrete. Certified check $1,500.

Erie County, Routes 272 and 86, Fairview Borough, 6,253 feet. One course reinforced concrete. Certified check $1,500.

Erie County, Routes 401-402-410, North East and Greenfield Townships, 25,061 feet. One course reinforced concrete. Certified check $4,000.

Indiana County, Route 68, White and Center Townships, 14,400 feet. One course reinforced concrete. Certified check $3,000.

Luzerne County, Route 11, Dorranceton Borough, 4,459 feet. Bituminous surface course on concrete foundations. Certified check $1,500.

Lycoming County, Route 176, Limestone Township, 2,835 feet. Bituminous macadam (penetration method). Certified check $1,000.

Montgomery County, Route 178, Upper and Lower Gwynedd, Whitpain, East Norriton Townships and North Wales Borough, 45,512 feet. One course reinforced concrete. Certified check $4,000.

Northampton County, Route 166, East Bangor Borough and Washington Township, length 6.317 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $1,500.

Somerset County, Route 51, Berlin Borough, 2,998 feet. One course reinforced concrete. Certified check $1,000.

Washington County, Routet 181, North and South Strabane Townships, 22,845 feet. One course reinforced concrete and Hillside vitrified brick. Certified check $4,000.

Washington County, Route 181, Somerset and Nottingham Townships, 16,137 feet. One course reinforced concrete. Certified check $3,500.

York County, Appli. 401-402, Windsor Township and Windsor Borough, 10,202 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check $2,000.

Passenger Station, East Greenville, Pa. Architect, Otto Herold, Reading Terminal, Philadelphia. Owners, Perkiomen R. R., P. & R. R. R. Co., Twelfth and Market streets, Philadelphia. Owners taking bids, due Oct. 2nd. Chas. C. Pace, Merion, Pa., additional bidder.

Building D, E, J, K and I, Byberry, Pa. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Philadelphia Institution for Feeble Minded, care of Dr. C. Lincoln Farbush, Director of Department of Public Safety, 584 City Hall. General al-



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terations, wire window guards, metal lath, plastering, repairing doors, painting, glazing and hardware. Owners taking bids, due Oct. 6th. Frank G. Stewart, 1619 Sansom street, Philadelphia, is figuring.

Pennsylvania Contracts Awarded

Residence (alts. and add.), Stable and Garage, Merion, Pa. Architect, private plans. Owners, Harry F. Sieber, Parkway Trust Co., Fifteenth and Race streets. Stone and frame, 2 stories, hot water heating, electric lighting, tile work, hardwood floors, plumbing, paining, cement work. Contract awarded to Paul H. Turnbull, 512 Bulletin Building, Philadelphia.

Hospital, Elizabethtown, Pa. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owners, Philadelphia Free Masons' Memorial Hospital, Elizabethtown, Pa. Contract awarded to Lucas Peters, 3537 North Fifteenth street, Philadelphia, for stone foundations.

Buildings (2) (alts. and add.) to Store and Apartment, Washington and Northampton streets, Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, J. Williams, 27 Nicholas street, Wilkes-Barre, Pa. Brick, 1 story, 29x50 feet, oak floors, electire light, tile work, new plumbing, general interior alterations, electric wiring. Contract awarded to Morris Moskowitz, Wilkes-Barre, Pa.

Convent (rebuilding and add.), South Washington street, Wilkes-Barre, $150,000. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Sisters of Mercy, care of architect. Brick, steel, concrete, fireproof, 2 stories, 65x30 feet, hardwood floors, electric lighting (heating reserved), new plumbing, hollow metal skylights, roof ventilators. Contract awarded to O. J. Burns, Wilkes-Barre, Pa.

Machine Shop, Lebanon, Pa. Architect, private plans. Owners, Cornwalls R. R. Co., Lebanon, Pa. Brick and steel, 1 story, 150x200 feet, slag roof, wood block, stone foundations, steam heat, electric light, rolled steel sash, iron work. Contract awarded to Austin & Co., Bulletin Building, Philadelphia.

New Jersey Construction News

Bank Building, Broad and Clinton streets, Newark, N. J. Architects, John H. and Wilson Elv, Firemen's Building, Newark, N. J. Owners, Merchants' & Manufacturers' National Bank, Newark, N. J. Brick, cut stone and steel, 16 stories, 133x87 feet, slag roof, cement and terrazzo floors, tile and marble work, hollow tile, metal lath, elevators, waterproofing, iron work, hollow metal doors, rolled steel skylights, hollow metal sash, electric lighting, steam heating, concrete foundations. Architect taking bids due October 2nd. Warren-Moore Co., Colonial Trust Building, Philadelphia, is figuring.

Dwelling, Chambers street, Trenton, N. J., $4,000. Architect, private plans. Owner, Pasquale Piela, 461 Whitaker street, Trenton, N. J. Frame, 2½ stories, 14x41 feet, slate roof, pine floors. Owner will build.

Boiler House (add.), Trenton, N. J. Architect, J. O. Hunt, Montgomery street, Trenton, N. J. Owner, Cresen Insulating Wire & Cable Co., on premises. Brick, steel, 1 story, 41x59 feet, slag roof, sheet metal. Plans in progress.

Residence (alt.), Store Rooms (3), Brunswick and Pine street, Trenton. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, Red Cross Pharmacy, on premises. Brick, 1 story, 45x120 feet, concrete foundations, slag roof, hard wood floors, vapor heat, electric light, tile work. Plans in progress.

Auditorium, Gymnasium and Dining Room, Bordentown, N. J., $160,000. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, Manual Training School, care of Mr. Valentine, Bordentown. Brick, fireproof, 2 stories, 140x53 feet, concrete foundations, slate roof, steam heat, electic light, tile and marble work, metal lath. Plans in progress.

Garage (alts.), North Broad street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Henry Bros., on premises. Show room, plate glass, hardwood floors, steam heat, electric light, tile work. Architect ready for bids due October 1st.

Comfort Station (int. alt.), Trenton, N. J. Architect, J. O. Hunt, Montgomery street, Trenton, N. J. Owner, City of Trenton, L. D. Hirsch, City Hall, Trenton, N. J. General interior alterations, plumbing. Low bidder, C. Y. Barlow, Trenton, N. J.

Irving School (alts. and add.), Highland Park, N. J. Architect, Alexander Merchant, 363 George street, New Brunswick, N. J. Owners, Board of Education, Borough of Highland Park, N. J. Brick and steel, 2 stories, 25x51 feet. wing 34x30 feet, slag roof, cement and pine floors, metal lath, stone foundations, iron work. Owners taking bids. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, and Matthews Const. Co., Princeton, N. J., are figuring.

Club House, Camden, N. J. Architect, J. Ethan Fieldstein, Penfield Building, Phila-

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delphia. Owners, I. B. P. O. E., No. 87, Camden, N. J. Brick and stone, 3 stories, 40x108 feet, slag roof, pine floors, iron work, stone foundations, steam heating, electric lighting. Architect will be ready for bids in one week.

Club House, Linwood, N. J. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Linwood Country Club, Linwood, N. J. Hollow tile and concrete, 2 and 3 stories, 60x100 feet, steam heating, electric lighting, marble work, swimming pool. Architects will be ready for bids in a few days.

House, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, H. Townsend, 140 South Olden street, Trenton, N. J. Brick, 2 stories, 20x33 feet, concrete foundations, slate roof, pine floors, hot water heat, electric lighting, tile work. Contract awarded to J. Barlow, Trenton, N. J.

Miscellaneous Construction News

Residence and Garage, near Wilmington, Del. Architects, Mellor, Meigs & Howe, 201 South Juniper street, Philadelphia. Owner, Christopher Ward, Wilmington, Del. Stone, 2½ stories, 76x74 feet, garage, 24x40 feet, shingle roof, pine and cement floors, stone foundations, tile and marble work, iron work (heating and electric work reserved). Architects taking bid from John W. Barnes, 10 East Forty-third street, New York City.

Union Free Schools, District No. 7, North Hempstead, Long Island, New York. Architects, Wesley S. Bessell and Frank Goodbillie, 56 West Forty-fifth street, New Yoork. Owner, Board of Education, North Hempstead (Great Neck), Long Island, New York. Brick, stone and steel, 2½ stories, 174x62 feet, slate roof, concrete, maple, cork and composition floors, hollow tile, metal lath, waterproofing, iron stairs. Bond. Kalamein doors, tile and marble work, stone foundations. Owners taking bids due October 4th. Standard Const. Co., 1713 Sansom street, Philadelphia, is figuring.

Storehouse for Combustibles, Navy Yard, Washington, D. C. Spec. 4155. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete and stucco, 1 story, 60x80 feet, built-up roof, concrete and maple floors, hollow tile, concrete foundations, rolled steel sash, hollow metal doors. Owners taking bids due September 29th. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

Machine and Storage Building, Baltimore, Md. Architect, private plans. Owners, American Can Co., 120 Broadway, New York City. Reinforced concrete, 4 stories, 88x209 feet, Barrett Spec., concrete and wood block floors, metal lath, safety treads, metal window guards, stone foundations, tile work, rolled sash, fire doors. Bond. Iron work. Owners taking bids due October 2nd. Warren-Moore Co., Colonial Trust Building; Turner Const. Co., 1713 Sansom street, Philadelphia; Consolidated Eng. Co., Calvert Building, and West Const. Co., American Building, Baltimore, Md., are figuring.

Women's Clinic (alts. and add.), Wolfe and Monument streets, Baltimore, Md. Architect, Joseph Evans Sperry, Calvert Building, Baltimore, Ml. Consulting engineer, Herman F. Doeleman, 507 North Charles street, Baltimore, Md. Owners, Johns Hopkins Hospital, on premises. Brick, stone, steel and terra cotta, 5 stories, 60x45 feet, 58x44 feet and 30x28 feet, slate, tile and built-up roof, terrazzo, cement and plank floors, metal lath, waterproofing, dampproofing, iron work, iron stairs, kalamein doors, rolled steel sash, tile and marble work, concrete foundations (heating an delectric work reserved). Architect taking bids, due October 8th. Irwin & Leighton, 126 North Twelfth street, Philadelphia; Frainie Bros. & Haigley, 20 Clay street; Chas. L. Stockhausen Co., Gay and Water streets; Consolidated Eng. Co., Calvert Building; Geo. A. Fuller Co., American Building; B. F. Bennett Building Co., 123 South Howard street; Cogswell, Koether Co., 406 Park avenue, all of Baltimore, Md., and C. A. Langley, 310 Twelfth street, Washington, D. C., are figuring.

Miscellaneous Contracts Awarded

Garage, Spring and Clark streets, New York City. Architect, private plans. Owners, Exide Battery Co., New York City. Brick and concrete, 2 stories, 115x125 feet, slag roof, cement and pine floors, stone foundations, steam heating, electric lighting, rolled steel sash, iron work. Contract awarded to William Steele & Sons Co., Inc., 1600 Arch street, Philadelphia.

Store Building, 2102 Monument street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Morris Klein, on premises. Brick, 3 stories, 18x90 feet, slag roof, brick foundations, pine floors, hot watetr heat, electric light, tile and marble work, plate glass, hollow metal sash, plumbing, metal bulks, fire escapes. Contract awarded to E. Eyring & Son, Baltimore, Md.

Group of Buildings, Massachusetts avenue, between Twentieth and Twenty-first streets, Washington, D. C., $789,000. Architect, Snowden Ashford, Municipal Architect of District of Columbia, Washington, D. C. Owner, Gallinger Municipal Hospital, Louis Brownlow and Charles W. Lutz, Commissioners, District of Columbia, District Building, Washington, D. V. Brick, stucco, stone and steel, 2½ stories, administration building, 65x127 feet, wing 149x45 feet, building for mentally defective women 112x52 feet, wing 26x44 feet, wing 101x30 feet, building for mentally defective men 112x52 feet, wing 26x44 feet, wing 101x30 feet, stone foundations, slate, tile and slag roof, cement, maple and terrazzo floors, marble work, hollow tile, metal lath, elevators, rolled steel skylights, roof ventilators, metal weather strips, waterproofing, dampproofing, iron stairs and work. Bond. Contract awarded to William E. Wyne, Home Life Building, Washington, D. C.

Proposals

INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 21, 1920. Sealed proposals will be opened in this office at 3 P. M., October 26, 1920, for the remodeling and repairing of the United States Custom House and Post Office at Buffalo, N. Y. Drawings and specifications may be obtained from the custodian at Buffalo, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 27, 1920.—Sealed proposals will be opened in this office at 3 P. M., October 27, 1920, for the remodeling of the United States custom house and post office at Providence, R. I. Drawings and pecifications may be obtained from the custodian at Providence, R. I., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

AS THE EDITOR SEES IT

(Continued from Page 828.)

tions seem to be the main issues. Taxation and industrial relations also occupy a place in the general political thought. Least interest appears to be shown in the railroad policy of the present administration, radical movements, and prohibition.

"It is clear that the country is on a sound economic basis, and there is generally a spirit of confidence in the future, regardless of the outcome of the election.

"The business outlook appears to be good in every section. Wholesalers and retailers view the fall and winter optimistically. The retailer is finding that the consumer is looking forward without fear to the winter, and his purchases from the wholesaler are founded upon this optimism. From the simple toiler up through the tradesman to the industry and the financier there runs the connected feeling of confidence."

Discussing the readjustmen period *The Corn Exchange* sees the end of Post War Hysteria and gives some reassuring facts stating:

In looking back over the post-war period, one fact stands out prominently. That fact is that most of the dire things which were apprehended never came to pass.

It is now nearly two years since the armistice. The increasing production of goods in many lines has already exerted a marked tendency on the trend of values.

While we are still far from a proper balance, business is, nevertheless, tending toward a surer footing.

Increased production, lessened extravagance, improved labor conditions—these with the promise of better transportation conditions and good crops are the factors which show that any crisis which may have confronted the country has in all likelihood been safely passed.

There is also reassuring evidence that

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the sober commonsense of the American people is beginning to reassert itself.

There is no question that during the present year the tight money market and an overextended credit situation aggravated by most unfortunate transportation conditions, warranted some misgivings as to how the situation would work itself out.

There were no sign posts to guide the way, but as has been the case all through this remarkable post-war period, there has suddenly developed an unmistakable trend.

Perhaps the first determining factor was the realization that we have quite enough to go round,--enough food,enough clothes, enough comforts, housing conditions excepted, and even enough luxuries to satisfy with a good margin to spare.

As a result, business began to feel its way. Manufacturers and dealers became cautious and refused to take chances. Many cancellations undoubtedly had a great deal to do with this change in policy.

Speculation in merchandise and a disposition to pile up stocks for fear goods would not be available are things of the past in most lines.

If this makes for smaller average profits, it also makes for a lessened strain on credits, less inflation and ultimately a healthier price basis.

The tense money situation, while still acute enough, is not so bad as it was in commercial lines. The demand for capital funds, however, is not so easily satisfied, which is due in no small degree to the diversion of investment funds to tax free securities. Commercial funds will work into easier shape with the thawing out of frozen credits as shipments move more freely.

Moreover, the consuming power of the country will doubtless increase in volume as the fall season approaches.

With a manifest tendency towards an equalization of production and consumption, there will be less talk of Bolshevism and more thought and effort given to the rendering of an honest day's work.

The United States Bureau of Labor calls attention to the improvement in labor conditions. Immigration reports show that the influx of foreigners is limited only to steamer capacity—a condition that these columns antipicated some months ago.

During this transition period there has been demonstrated beyond cavil that the law of supply and demand, when allowed to operate unhampered by artificial restrictions, will do more than anything else to bring order out of chaos. The equalizing processes that result from the operation of this law mean in large part not only the solution of our own troubles, but of the troubles of other countries. Therein too will be found the solution to the problem of establishing a better proportion between agriculture and industry. So will the question of our foreign commerce ultimately find its answer, for we are convinced that a greater interchange of commodities between the United States and the rest of the world will be the sequel to our own condition of supply and demand here at home.

Likewise, may we look for a remedy in the housing situation. For an overproduction in one industry will divert labor into another. Arificial restrictions of labor unions may for a time hamper the working out of this process, but no organization can long arbitrarily prevail against the pressure of men seeking an honest livelihood.

Reviewing then, the conditions that confront the country at this time, there is much to be thankful for:

First. The railroad problem, so fraught with ugly possibilities, is in process of soluton.

Second. Crops on the whole will be good.

Third. The labor situation is improving.

Fourth. There is a widespread demand for a wise revision of our tax laws.

Fifth. The slackening up in some lines of business will probably be followed by greater activity in others.

Sixth. Our supply of funds for commercial and capital needs, if properly distributed, is adequate.

Seventh. The post-war hysteria, with its irrationalism and radicalism, is giving p'ace to a saner conception of the things that make for orderly progress.

Prophesy is cheap. We shall not attempt to forcast conditions a year ahead, but it is fair to assume that competition in our own markets and in our markets abroad may become keener. Competition sharpens men's wits. Competition developes initiative, promotes efficiency and stimulates the inventive faculties.

Wt have entered another phase of this remarkable period of readjustment. If a truer exchange of values, whether in labor or in commodities, is in order, the country is thereby tendered a blanket policy against a repetition of the excesses of the past year; while business, too, can then proceed to make its calculations with more confidence in the future of values.

"There is no general expectation that by postponing new building for a new months, marked savings may be realized through future declines in prices," says the Guaranty Trust Co. "Even should the long-desired definite recession in prices develop it is believed that for some time yet building costs will show at best but slight decline and many think there will be further advances in building costs generally.

"The raw material for building are available in abundance, sufficient to support the most ambitious building program and in the lumber industry it is estimated that there is an excess plant capacity of 50%. The supply of materials may therefore, in many cases, promptly be enlarged whenever demand calls for it.

REMOVAL NOTICES

Amos W. Barnes, Architect, formerly of 1507 Arch St., Philadelphia, has moved his office to the Fuller Bldg., at 10 S. 18th St., Bell phone Locust 69-48.

Hance, Neely & Mitchell, Architects, have left their old quarters at 1619 Chestnut St., Philadelphia, and have opened offices at 2126 Pine St. Bell phone Locust 26-37 W.

I. W. Levin, Architect, 536 Ritner St., Philadelphia, has moved to the Mutual Life Building, 1001 Chestnut St. Bell phone, Walnut 67-73.

F. J. Wilson Company, Fireproofing Specialties, are located at their new offices 305 Otis Building, 16th & Sansom Sts., Phila.

Durham Brothers announce the removal of their offices from 26 South Fifteenth street to 1611 Sansom street, Philadelphia. Bell phone, Locust 1706; Keystone phone, Race 5481 A.

David B. Bassett, formerly in the Perry Building, announces the removal of his offices to 1520 Locust street. Bell phone, Spruce 2626.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

Building Lime—Buy pure lime, no core, no grit—Chemical Lime. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Phila. Both 'phones.

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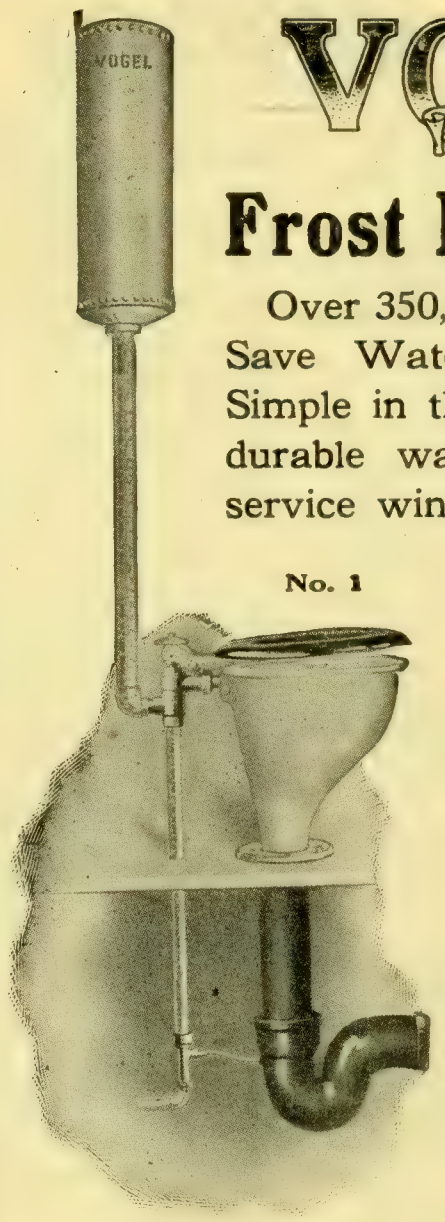
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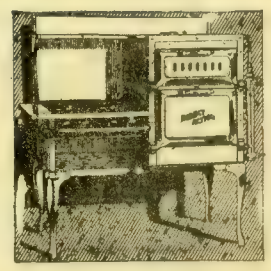


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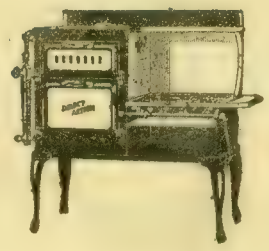
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October 6, 1920

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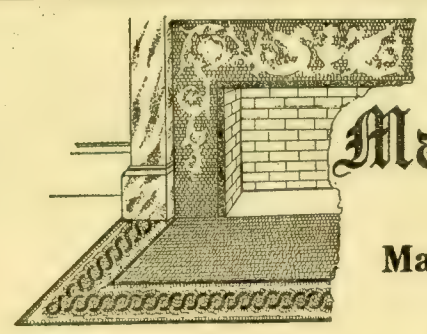
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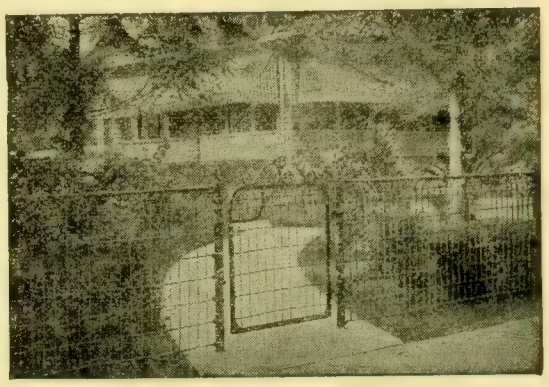
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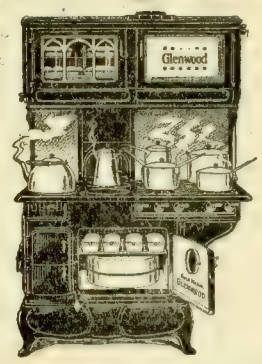
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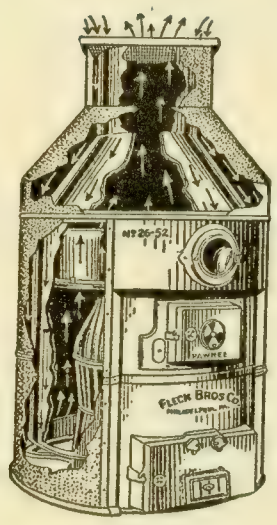


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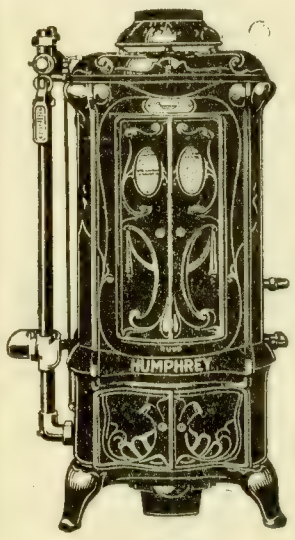
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 40

PHILADELPHIA
October 6, 1920

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As The Editor Sees It

The Committee on Education and Information of the Council of the Associated Building Trades (American Federation of Labor), of Philadelphia, composed of D. Knickerbacker Boyd, Chairman, and A. G. Haws, D. T. McKenna, W. J. Haggerty, and J. S. Meade, submitted to the industrial relations committee of the Chamber of Commerce of Philadelphia a statement of a program which the labor body favors for the promotion of harmony and co-operation of employers and employees of the building trades.

The communication presented in regular order the following propositions:

1. The whole hearted services, and equable representation on Committees, of both employer and employed are essential to the success of any industry.

2. Employees desire to assume their share of responsibility in management.

3. Employees desire employers to co-operate with them in bringing young men into the building industries.

4. Similar co-operation in providing instruction, training and experience for apprentices, is desired.

5. Similar co-operation is sought in making the day's work of more interest and the prospect of the next day more exhilarating to journeymen now in the trades.

6. Similar co-operation with respect to bettering conditions of working and living, is also desired.

7. Employers and employees organizations to co-operate in perfecting each as instruments of service.

8. Employers, architects and engineers to attend meetings of workingmen, take part in same, secure first hand knowledge of employees aims, offer advice and afford assistance.

9. Employers to organize, where not now organized in each industry.

10. These organizations to affiliate as one organization in the building industry.

11. These organizations to affiliate with similar organizations of employees.

12. The combined organizations to function as a Tribunal or Council of the Building Industry.

13. This Tribunal to have working Committees on Apprentices, Journeymen, working conditions, materials and methods, and others to eliminate strikes, lockouts and economic ills which retard progress.

14. This Tribunal or Council to work also for improvements of all conditions surrounding the building industry as a factor in the development of the community.

Draft of Program

(a) As we hold the service of the employed to be of equal importance to the service of the employer with respect to the welfare of any essential industry as well as to the entire community, we feel that any properly constituted Industrial Relations Committee—whether of a single industry or of many industries—should have equable representation from employed as well as employer.

(b) We believe this to be necessary in order to accomplish the purpose set forth in Statement No. 1 of the 1920 Declaration of Principles of the Philadelphia Chamber of Commerce, which Statement No. 1, we fully endorse. The same purposes are also set forth in Statement No. 1 of the 1920 Social Justice Platform of the Central Conference of American Rabbis, which Statement No. 1 we heartily endorse as we do all others of the six statements promulgated in that Social Justice Progress.

(c) By expressing the belief that it should be admitted to the Councils of the employers labor does not wish the inference to be drawn that it merely seeks a recognition of its rightful share in such of the employers' deliberations as are of mutual concern. Rather is it to be understood that labor desires to assume its proper proportion of the responsibility connected with the management of any industrial enterprise.

(d) But without insisting upon compliance labor does, however, seek to have what it considers of far more importance, —the active co-operation of the employers in developing the human-interest side of industry and the technical phase

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of craftsmanship. Labor feels also that the employer should not leave to it alone the onus and responsibility of bringing into each branch of the building industry that young blood, brawn and brains which should be attracted through appreciative interest and the means of intelligent choice, into these trades and diverted from less strenuous, health building, manly occupation. It therefore requests the support and co-operation of employers in encouraging young men to enter the ranks of the building trades and in providing the instruction, training and practical experience requisite for apprenticeship.

(e) In making this request we desire to emphasize the fact, apparently not heretofore recognized by the majority of employers, that those employed in the Building Trades are actually entitled to the assistance and co-operation of employers in securing, training and perfecting the human raw material out of which workers in these industries are produced and in making of the material more genuinely interested and efficient mechanics, workers and citizens. To this end we further request co-operation in providing additional means of interesting and informing the journeymen already in the trades and crafts. This relates not only to those men in labor organizations at their regular meetings through lectures, illustrated addresses and informal talks, but to all the men in shops, in the field and on the job through furnishing the means of more imtimate contact with their foremen and employers—and with the architects or engineers whose directions and desires it is aimed to follow.

For years those employed in the building industry have been giving their time, energy and means—almost alone so far as employers collectively are concerned, —to develop their organizations as instruments of service in their respective branches. If mistakes have been made, we feel that this is all the more reason why we should have the fullest co-operation of employers and of architects and engineers in the satisfactory solution of all problems.

(f) To accomplish these important ends and thereby to eliminate misunderstandings, strikes and other economic ills, labor hereby sets it down as a requirement of first consideration that all organizations, groups or committees of employers shall recognize their responsibilities toward brother workers and shall function with all organizations of employed and with committees or groups where no such organizations of labor exist.

(g) We therefore invite and request representation of employers or of their organizations and of architects and engineers at regular meetings of labor organization or at meetings of workingmen where not organized, to take part in discussions and movements for the betterment of service on the part of the employed and of conditions surrounding their employment and perhaps their living accommodations. This requirement is stipulated in order that workingmen may have the benefit of the knowledge and experience of those others interested in the welfare of each industry so that all may serve the general public to the best of their abilities.

This is stipulated also in order that these other elements in the building industry may be afforded the opportunity, through closer contact with workingmen, to understand their aims and aspirations. Also in order that such representatives, in addition to assisting through this participation may be in a position to report to their organizations or associates what present activities might in their opinion be discontinued, increased or improved upon through that intelligent constructive criticism heretofore lacking by reason of the absence of opportunity to secure first hand knowledge.

This requirement is formulated not only for the benefit accruing therefrom to the industries themselves but to the workingmen individually. And among these, we include all workers in Philadelphia and vicinity regardless of labor affiliations, race, color, or creed, stipulating only that they should be, or intend to become, law abiding, self-respecting, industrious citizens of the United States.

(h) To put into effect the purposes set forth in this proposed program, the following plan of organization and activities is outlined for your prompt consideration. It is hoped that by its adoption, either as submitted, or in such modified form as may be suggested at the subsequent meetings with your Committee which we are hopefully anticipating, that all misunderstandings may be cleared up, strikes eliminated, efficiency encouraged, production increased, the building industry stabilized and that the construction of houses and all other necessary buildings and utilities of which this community is so sorely in need may be proceeded with before the approaching cold weather is too close upon us.

Outline of Proceedure for Application of the Philadelphia Plan in the Building Industry

(a) The organizing through Associations, Groups or Committees where such do not now exist, of each employing branch of the building industry in number at least equal to the nineteen represented in the Council of the Associated Building Trades plus one more constituting the carpenters not at present associated and one for each group or committee of workers desiring representation.

(b) The joining together of all these Associations, Groups or Committees into a permanent, well organized Building Trades Employers Association with offices and officers.

(c) The appointment in each branch of the building industry of Committees of employers. These Committees to consist of one main committee in each branch. This committee to be divided into say

(Continued on page 853)

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Church and Sunday School Building, Fifty-fifth and Pentridge streets, Philadelphia, $75,000. Architect, W. H. Garns, Indianapolis, Ind. Owner, Emmanuel M. P. Church, care of William F. Heckenberger, secretary, 5022 Ogden street, Philadelphia. Stone, 1 story, 96x57½ feet, asbestos shingle roof, pine floors, metal lath, iron work, stone foundations, steam heating, electric lighting. Owner has received bids.

Residence (alts. and add.), 7162 Ridge avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street. Owner, L. E. Adams, on premises. Plaster, 1 story, 32x20 feet, canvas roof, pine floors, metal lath, metal weather strips, iron work. Bond. Tile and marble work, stone foundations. Architects have received bids.

Garage, Thirty-third street, Columbia avenue and Natrona street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, J. C. Ulick, care of architect. Brick, steel, stone and terra cotta, and reinforced concrete, 1 story, 110x170 feet, slag roof, cement floors, metal lath, stone foundations, steam heating, electric lighting, plumbing, rolled steel sash, hollow metal skylights, rolling steel doors, plate glass. Plans competed. Architects ready for bids.

Residences (4), Durham street, West of Ardleigh street, Philadelphia, $48,000. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Germantown. Stone, 3 stories, 26x39 feet, slate roof, hot water heating, hardwood floors, electric lighting. Owner will build.

Garage (add.), Twenty-eighth and Oakford streets, Philadelphia, $6,000. Architect, private plans. Owner, Alexander McElheny, 1230 South Twenty-eighth street, Philadelphia. Brick, 1 story, 18x60 feet, slag roof, cement floors, electric lighting. Owners will build.

Rearrangement of Cottages, Municipal Hospital, Second and Luzerne streets. Architect, private plans. Owners, City of Philadelphia, Department of Public Health, care of Dr. C. L. Furbush, Room 584, City Hall, Philadelphia. Owners have received bids.

Bridge, Forty-ninth street, over P., B. & W. R. R., Fortieth Ward, Philadelphia. Engineer, private plans. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Drector Frank H. Caven, Room 416, City Hall, Philadelphia. Steel encased in concrete, 180 feet long, 76 feet wide. Owners taking bids due October 15th at noon in Room 216, City Hall.

Residence, Bethlehem Pike, Chestnut Hill, Philadelphia. Architect, Albert Kelsey, Perry Building, Philadelphia. Owner, Jay Cooke, 3rd, Chestnut Hill, Pa. Stone, 2½ stories, 30x50 feet, slate roof, oak floors, stone foundations, electric lighting, tile and marble work. Plans in progress.

Church, Sanger and Hasbrook streets, Philadelphia, $30,000. Architect, D. E. Sutton, 721 Walnut street, Philadelphia. Owner, Crescentville Church, on premises. Brick and steel, 1 story, 54x54 feet, slate roof, pine floors, metal lath, stone foundations, steam heating, electric lighting, iron work. Architect will sublet all contracts.

Offices (alts.), Southeast Corner Fifteenth and Locust streets, Philadelphia. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owner, Dr. E. R. Sausser and Dr. G. A. Coleman, on premises. General alterations to three-story building. Plans completed. Architects will take bids in one week.

Manufacturing Building, Assembly Building and Office Building, Westmoreland and Hunting Park avenue, Philadelphia. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Daniels Motor Co., 244 West Fifty-ninth street, New York City. Brick, slow burning, 2 stories, 80x474 feet, 1 story, 80x125 feet, and 2 stories, 40x100 feet, slag roof, cement and pine floors, elevator, roof ventilators, stone foundations, steam heating, electric lighting, rolled steel sash and skylights, fire doors. Architects will build. Plans in progress.

Dining Room on Roof, Warehouse and Garage, Twenty-third and Allegheny avenue, Philadelphia. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owner, Reyburn Mfg. Co., on premises. Reinforced concrete, 4 stories, 80x340 feet, dining room on roof, 40x125 feet, warehouse, 1 story, 80x224 feet, garage, 1 story, 30x100 feet. Brick and steel, slag roof, cement floors, stone foundations, steam heating, electric lighting, rolled steel sash and skylights, iron work. Architects will build. Plans in progress.

Bungalow, Northeast Corner Dorcas and Bleigh streets, $4,500. Architect, private plans. Owners, C. T. Beechwood, 112 Pine street, Collingdale, N. J. Frame, 1 story, 24x36 feet, electric lighting, hardwood floors. Owner will build.

Forming Building, Southeast Corner Rising Sun avenue and Adams street, $100,000. Architect, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue. Brick, 1 story, 129x259 feet, slag roof, steam heating, electric lighting, cement floors, rolled steel sash. Architects will build.

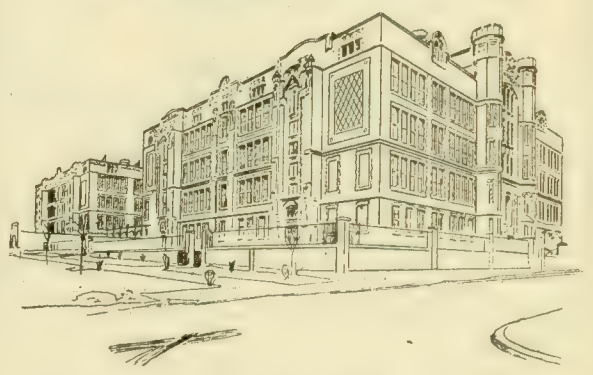
Store Building, 709 North Broad street, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, Universal Rubber Co., 320 North Broad street, Philadelphia. Brick and steel, 2 stories, 18x50 feet, slag roof, cement and pine floors, stone foundations, steam heating, electric lighting, marble work, plate glass, hollow metal skylights, metal ceilings. Plans in progress.

Residences (2) (alts.), Vassar street, West of Ridge avenue, $5,000. Architect, private plans. Owner, W. F. Rayner, 4128 Pechin street, Philadelphia. General alterations, electric lighting, hardwood floors. Owner will build.

Club House (alts. and add.), location withheld, Philadelphia. Architect, Paul Cret, 1535 Chestnut street, Philadelphia. Owners, Aesculapian Club, 1825 Ranstead street, Philadelphia. General alterations and additions. Plans in progress. Will be ready for bids in two weeks.

Residence (alts. and add.) to Apartments, 1431 Diamond street, Philadelphia. Architect, E. L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, S. Stein, care of architect. General interior alterations, roof repairs, hardwood floors, hot water or vapor heating, electric lighting, plumbing. Architect taking bids due October 19th. G. J. Reich, 1112 Louden street; T. S. Fetter, 1829 Filbert street; John M. Yardley, 1716 Sanom street; T. Wilkinson, 3639 North Ninth street, and George W. Thayer, 1233 Ludlow street, are figuring.

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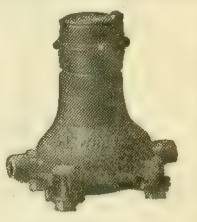
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House of Good Shepherd, Penn and Chew streets, Germantown, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of the Good Shepherd, on premises. Changing kitchen, plumbing, interior alterations. Architect ready for bids.

Stores (2) and Apartments (2) (alts.), Watts and Venango streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner. Fred J. Schaefer, care of architects. Brick, 2 and 3 stories, general interior alterations and new front, flush bulks, plate glass, tile work, electric lighting, hot water heating, hardwood floors, new partitions. Plans in progress.

Garage, Park avenue and Hunting Park avenue, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, E. C. Durell, 1713 North Twenty-fourth street, Philadelphia. Brick and steel, 1 story, 37x115 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting, rolled steel sash, hollow metal skylights, iron work. Owners are taking subbids.

Pumping Station (alts.), Queen Lane, Philadelphia. Architect, private plans. Owners, Bureau of Water, City of Philadelphia, Room 788, City Hall. General alterations, excavation, lowering floor, stages, galleries and stairways in engine room, alterations in offices and dressing rooms, equipment, boilers. Owners taking bids due October 13th at noon. Plans may be secured from Room 788. Deposit $5.00. Monaghan & Losse, 3016 Chestnut street, are figuring.

Hospital (alts.), Thirty-fourth and Pine streets, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Public Health, care of Dr. C. L. Furbush, Director, 584, City Hall, Philadelphia. Laboratories, elevators, fireproof stairways. Owners have received bids.

Moving Picture Theatre (alts. and add.), 2512 East Clearfield street, Philadelphia. Architect, Willis A. Hall, 524 Walnut street, Philadelphia. Owner, William E. Butler, 2353 East Clearfield street, Philadelphia. General interior alterations, 1 story, steam heating, electric lighting, cement floors, marble work, plastering, painting, ornamental iron work. Owner taking bids due October 11th. Ketcham & McQuade, 1029 Brown street, are figuring.

Store and Apartments (alts. and add.), 1444 South Broad street, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, John M. Di Silvestro, care of architects. Brick and artificial stone, 1 story add., 18½x42 feet, slag roof, hardwood floors, vapor heating, electric lighting, marble work, plumbing, plate glass, flush bulks. Plans in progress.

Garage, 6924 Yord road, Philadelphia, $7,500. Architect, private plans. Owner, William T. Muldrew, 6926 York road, Philadelphia. Brick and steel, 1 story, 160x18 feet, slag roof, hot water heating, electric lighting, cement floors, iron work. Owner will build.

Residences, West side of Sixty-fifth street, South of Callowhill street, $5,000. Architect, private plans. Owner, F. A. Cavalerio, 409 North Simpson street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, steam heating, electric lighing, pine floors. Owner will build.

Greenhouses (4), Bustleton avenue, North of Cottman street, $8,000. Architect, private plans. Owner, John F. Simon, on premises. Frame and glass, 1 story, 60x100 feet. Owner will build.

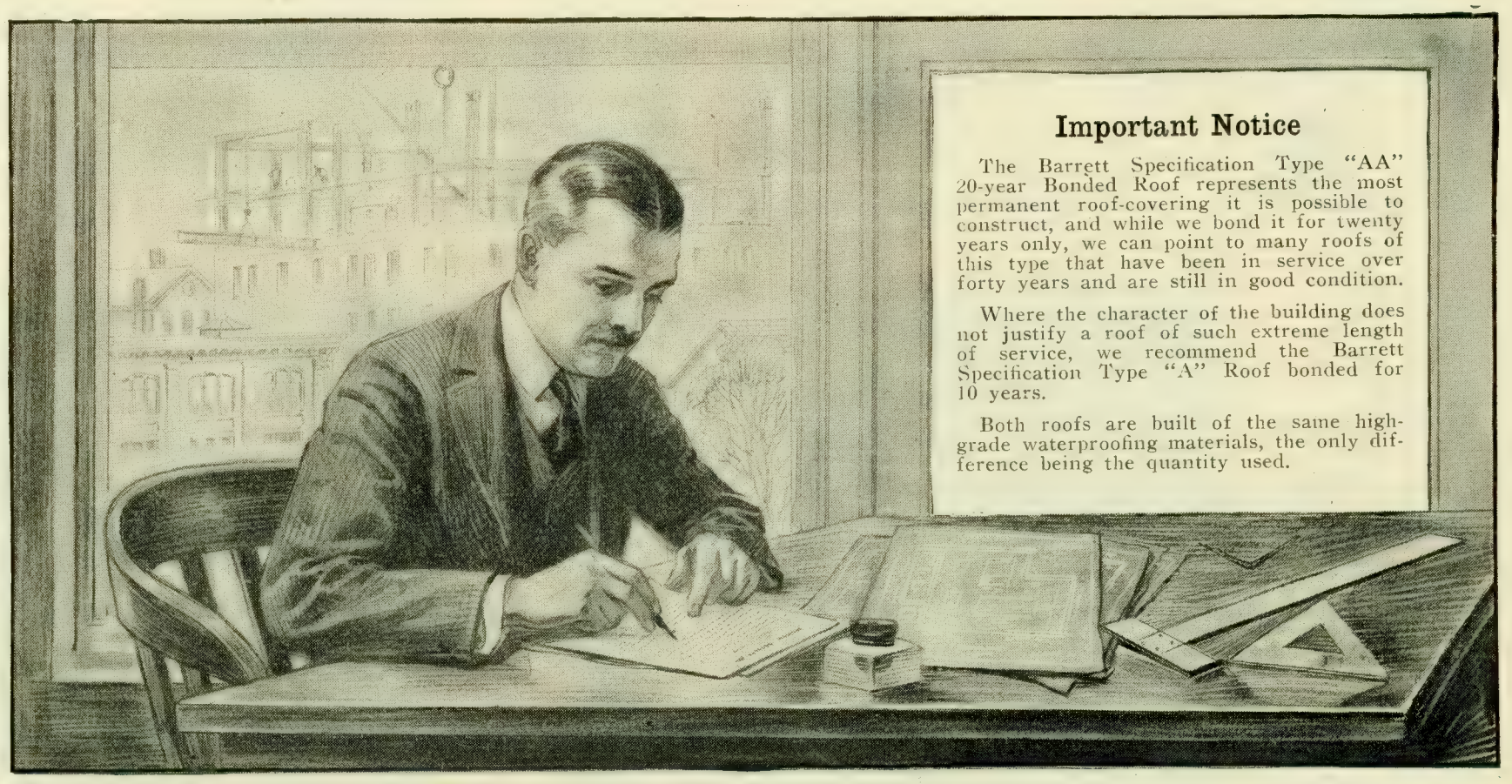
Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Germantown avenue and Berkley street, Germantown, Philadelphia, $75,000. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owner, Staybestos Mfg. Co., 5534 Lena street, Philadelphia. Brick, slow burning, 2 stories, 60x172 feet, slag roof, pine floors, stone foundations, steam heating, electric lighting. Contract awarded to R. M. Peterson & Son, 5114 Germantown avenue.

Residence (alts.) for Bank Building, Broad and Airdrie streets, Philadelphia. Architect, Philip Merz, Pennsylvania Building, Philadelphia. Owners, National Bank of North Philadelphia, on premises. Brick, stucco, stone, steel, fireproof, 3 stories and basement, 27x30 feet, stone foundations, composition roof (heating, plumbing and electric work reserved), tile and marble work, metal lath,

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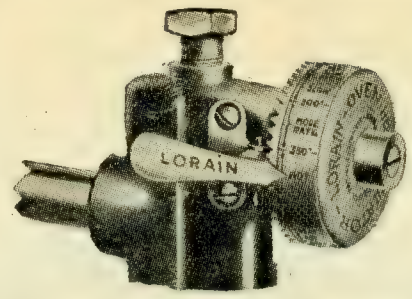
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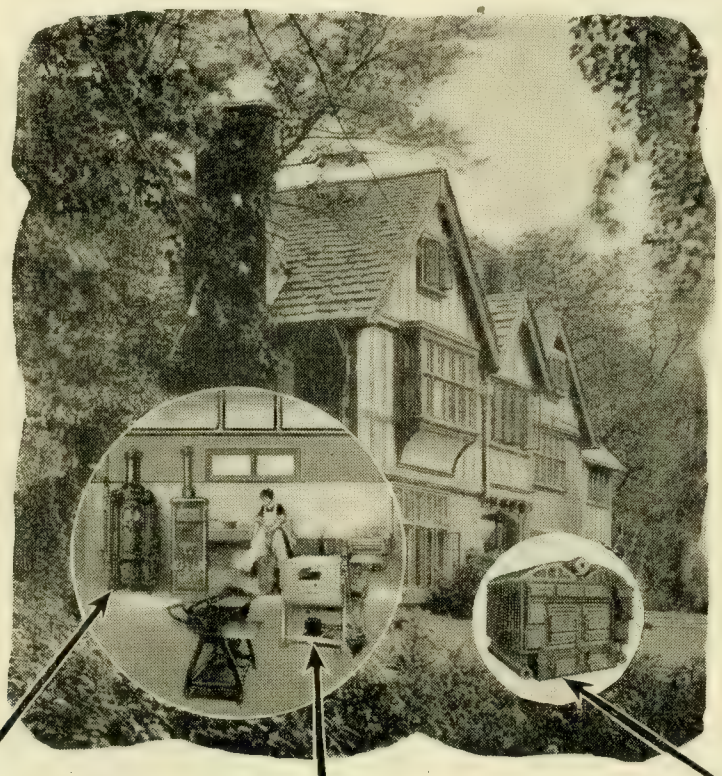


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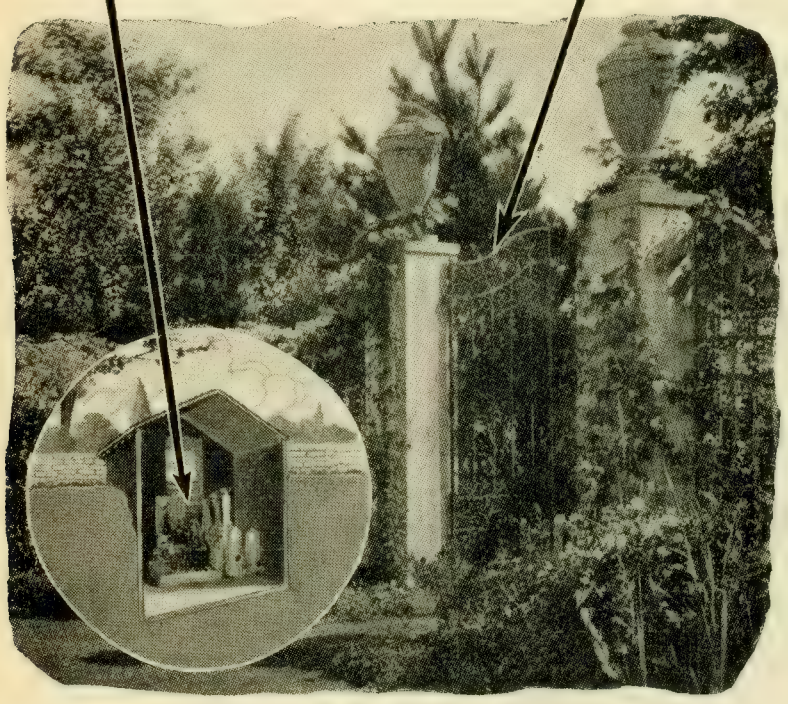
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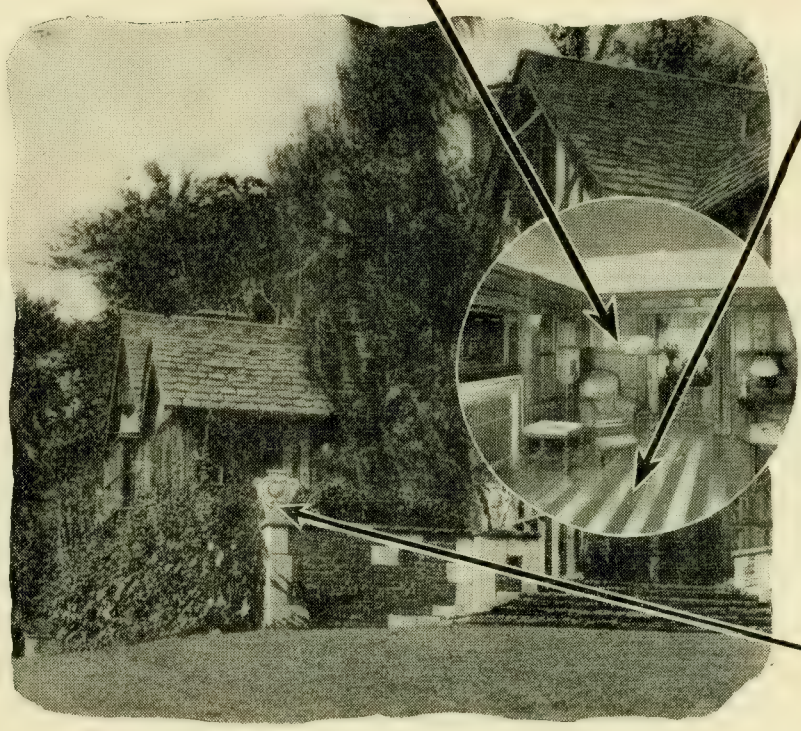
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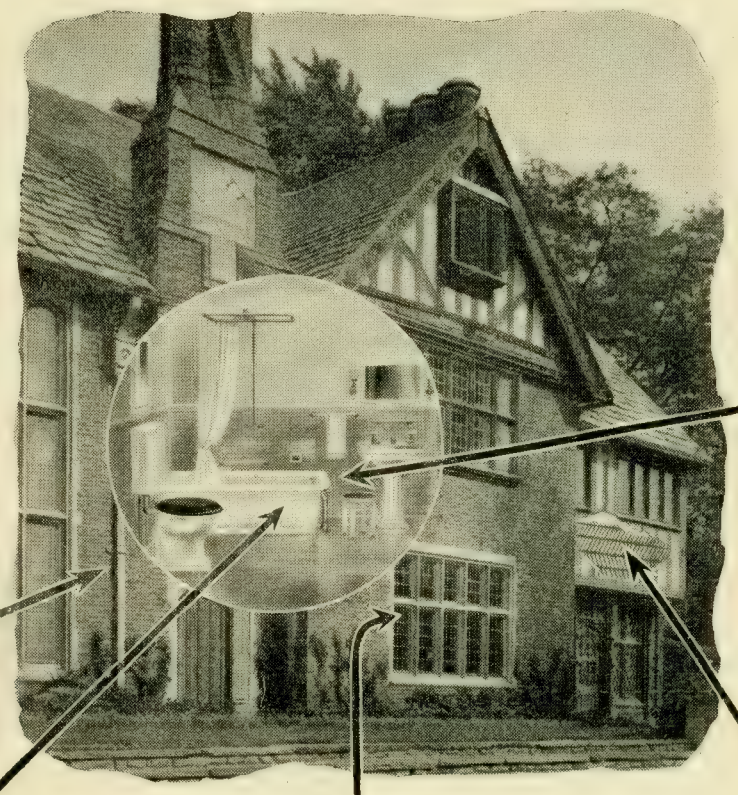
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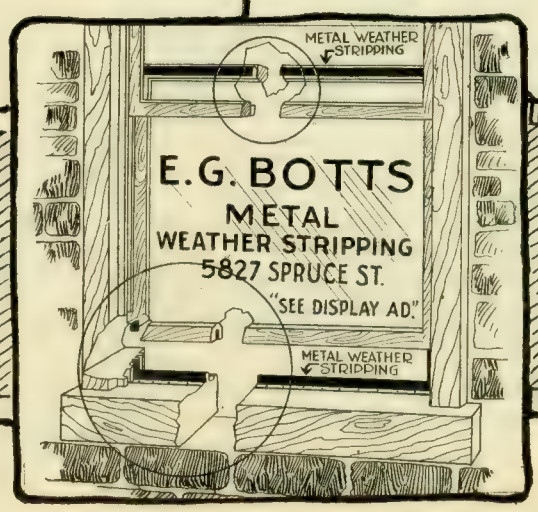
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fire doors, waterproofing. Contract awarded to Jacob Y. Loux, 3731 Old York road, Philadelphia.

Residence and Office, Martha street, North of Ann street, $8,000. Architect, private plans. Owner, Thomas Wolstenholme, Frankford avenue and Westmoreland street. Brick, 2 stories, 18x40 feet, slag roof, pine floors, electric lighting, steam heating. Contract awarded to Harry R. Moyer, 2035 East Allegheny avenue.

Warehouse, 4622 Lesher street, Philadelphia, $4,500. Architect, private plans. Owners, S. W. Evans & Son, 4623 Paul street, Philadelphia. Brick, 1 story, 29x63 feet, slag roof, cement floors, electric light. Contract awarded to Thomas Summerfield, 1615 Howarth street, Philadelphia.

Garage, Southeast Corner Front and Shunk streets, Philadelphia, $10,000. Architect, William Higginson, 18 East Forty-first street, New York City. Owner, American Mfg. Co., on premises. Brick and steel, 1 story, 32x77 feet, Johns Manville roof, electric lighting, cement floors, rolled steel sash, skylights, roof ventilators, iron work. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Garage, Thomas avenue and Angora Terrace, Philadelphia, $5,000. Architect, private plans. Owner, Robert Grogan, on premises. Brick, 1 story, 18x70 feet, slag roof, steam heating, electric lighting, cement floors. Contract awarded to Edward Holland, 1037 South Fifty-fourth street, Philadelphia.

Mill Building (alts. and add.), Fifth and Columbia avenue, Philadelphia. Architects, Baer, Cooke & Co., Land Title Building, Philadelphia. Owners, Philadelphia Carpet Co., on premises. Reinforced concrete, 1 story, 18x12 feet, slag roof, concrete floors, concrete foundations, fire doors, steel work, slag roof, carpentry, mill work, panting. Contract awarded to George Kessler Cont. Co., Drexel Building, Philadelphia.

Filter Building, Richmond and Tioga streets, Philadelphia. Architect, private plans. Owners, Dill & Collins, on premises. Reinforced concrete, 3 stories, 28x58 feet, slate roof, cement floors, stone foundations, rolled steel sash and skylights. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Building (alts.), Southwest Corner Race and Van Pelt streets, Philadelphia, $8,000. Architect, J. Emlen Bullock, 10 South Eighteenth street, Philadelphia. Owners, Vulcan Bronzing Co., on premises. Brick, 1 story, 16x30 feet, slag roof, cement floors, stone foundations, plastering, carpentry, mill work, painting, glazing and hardware. Contract awarded to E. R. Hall, Middle City Building, Philadelphia.

Store and Restaurant, Broad street, Germantown and Erie avenues, $9,000. Architect, private plans. Owner, William Friehofer, Twentieth and Indiana avenue, Philadelphia. Brick and steel, 1 story, 12x44 feet, slag roof, heating and lighting extensions, pine floors, iron work, plastering, plumbing, painting, glazing. Contract awarded to Henry P. Schneider, 3713 Old York road, Philadelphia.

Garage, 707-09 Pemberton street, Philadelphia, $6,300. Architect, private plans. Owners, Donato Amoroso, 719 Pemberton street, Philadelphia. Brick, 1 story, 34x85 feet, slag roof, cement floor, electric lighting. Contract awarded to G. W. Glover, 3209 Haverford avenue, Philadelphia.

Stores, 4856-58 Lancaster avenue, Philadelphia, $10,500. Architect, private plans. Owner, Melichiorri Bros., on premises. Brick, 1 story, 36x100 feet, slag roof, steam heating, electric lighting, pine floors. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

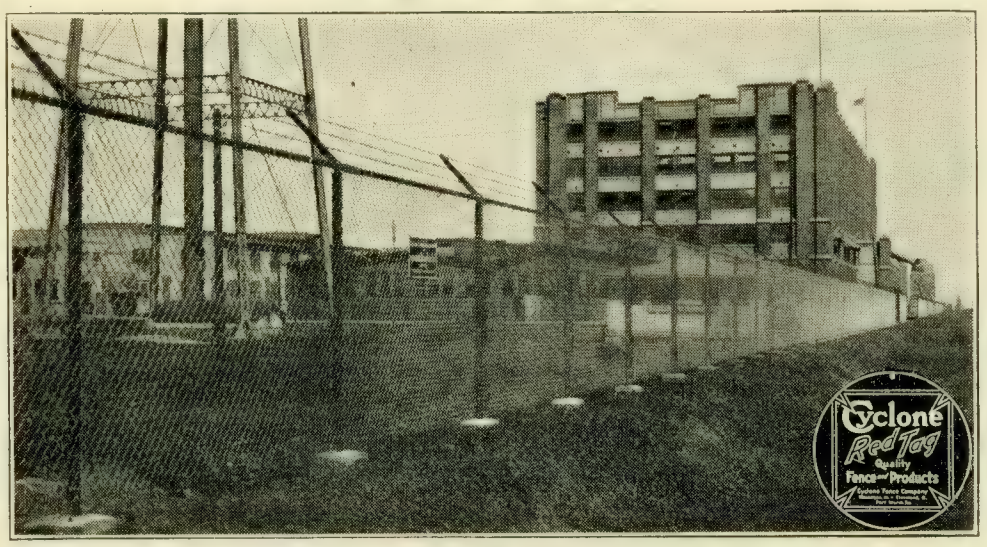
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Factory (alts.), Southeast Corner Twenty-fifth and Locust streets, Philadelphia, $16,000. Architect, private plans. Owner, J. J. Greenberg, Morris Building, Philadelphia. Carpentry, brick work, sheet metal work, glazing, freight elevator. Contract awarded to Wark & Co., 1737 Filbert street, Philadelphia.

Store and Dwelling, 620 South Broad street, Philadelphia, $5,350. Architect, private plans. Owner, M. Giblin, on premises. Brick, 3 stories, 16x32 feet, slag roof, pipeless heater. Contract awarded to Louis Freidman, 314 McKean street, Philadelphia.

Residence (alts. and add.), 1523 Locust street, Philadelphia. Architect, private plans. Owner, J. Frederick Herbert, M. D., on premises, and Flanders Building. Brick, 3 stories, 11x20 feet, slag roof, pine floors, metal lath, iron work, stone foundations, carpentry, painting, glazing, plumbing, hardware, plastering. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Shelter Building, Front and Allen streets, Philadelphia, $6,696. Architect, John F. B. Sinkler, City Architect, City Hall, Philadelphia. Owners, City of Philadelphia, Bureau of Recreation, 587, City Hall, Philadelphia. Brick, 1 story, 14x20 feet, slate roof, cement floors, stone foundations, hot water heating, electric lighting, plumbing. Contract awarded to F. A. Foster Co., 43 South Seventeenth street, Philadelphia.

Residence (alts. and add.), 7162 Ridge avenue, Roxboro, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, L. E. Adams, on premises. Plaster, 1 story, 32x20 feet, canvas roof, pine floors, metal lath, metal weather strips, iron work, tile and marble work, stone foundations. Contract awarded to William H. Eddleman & Son, 453 Green Lane, Roxborough.

Church (alts.), Germantown and Mt. Pleasant avenues, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Mt. Airy Presbyterian Church, care of Rev. J. Calhoun, premises. Changing basement into Sunday School room, indirect system of heating, electric lighting, cement floors, plastering, linoleum, mill work. Contract awarded to John Schnable Co., Denckla Building, Philadelphia.

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for October 1, 1920.

Editor, H. L. Sharpe.

Managing Editor, none.

Business Manager, Louis S. DeLone.

Publishers, Building News Publishing Co., Perry Building, Philadelphia.

Owners Louis S. DeLone, 6419 Drexel road, Philadelphia; Samuel R. McDowell, Narberth, Pa.

Known bondholders, mortgages and other security holders holding one per cent. or more of total amount of bonds, mortgages or other securities, none.

(Signed)
Building News Publishing Co.,
Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 28th day of September, 1920.

Edward J. Toole, Notary Public.
(My commisson expires Jan. 21, 1921.)

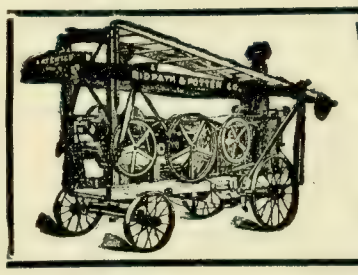


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PENNSYLVANIA Construction News

Factory Building, Bethlehem, Pa. Architect, Jurick Eng. Co., Allentown, Pa. Owner, M. Heyberger Ice Cream Co., Bethlehem, Pa. Brick and hollow tile, 3 stories, 34x100 feet, slag roof, cement and pine floors, stone foundations, electric lighting. Plans in progress.

Theatre, Coatesville, Pa. Architect, R. A. Kearns, Fuller Building, Philadelphia. Owner, C. E. Middleton, care of architect. Hollow tile and stucco, 2 stories, 25x79 feet, rubberoid roof, cement floors, stone foundations, steam heating, electric lighting, iron work. Architect will be ready for bids in a few days.

Residence, Bethayres, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Dr. William Sutch, 2638 North Fifth street, Philadelphia. Plaster on brick, 2½ stories, 45x35 feet, slate roof, hardwood floors, stone foundations, electric lighting, hot water heat, tile work. New plans completed. Architect is ready for bids.

Garage, Lewistown, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Keystone Motor Co., care of R. B. Montgomery, general manager, Lewistown, Pa. Brick, concrete and steel, 1 story (provision for additional system), 75x156 feet, 86x75 feet and 47x150 feet, slag roof, cement floors, roof ventilators, steam heating, electric lighting, rolled steel sash, hollow metal skylights, concrete foundations. Owners are taking bids.

Residence, Cynwyd, Pa. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, tile roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

School, Clifton Heights, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owners, School District of Clifton Heights, Clifton Heights, Pa. Brick, 2 stories and basement, 90x25 feet, slag roof, pine floors, heating undecided, electric lighting. Plans in progress.

Residence, Drexel Hill, Pa. Architect, private plans. Owner, Mr. Brown, care of builder. Stone and stucco, 2½ stories, 26½x46½ feet, slate roof, hardwood floors, wire lath, hollow tile, stone foundations, hot water heating, electric lighting, tile work, cement work, garage in basement. Builders, Delaware County Const. Co., Drexel Hill, Pa., are taking sub-bids.

Dog Kennels, Villa Nova, Pa. Architect, Louis H. Rush, 34 South Seventeenth street, Philadelphia. Owner, Mrs. Arthur Ringgold Spencer, Villa Nova, Pa. Brick, hollow tile and stucco, 1 story, 38x17 feet, stone foundations, shingle roof, cork and brick floors, electric lighting, metal lath, iron work. Owner will build.

Residence, No. 35, 341 Trevor Lane, Cynwyd, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Frame, 2½ stories, 27x28 feet, shingle roof, pine floors, stone foundations, hot water heating, electric lighting, tile work, ornamental iron work. Architect taking bids due October 11th. John E. Kearney, 34 South Seventeenth street, Philadelphia; Charles C. Pace, Merion, Pa., and J. Howard Roberts, Lansdowne, Pa., are figuring.

Residence (alts. and add.), Berwick, Pa. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Frame and stucco, second story add., 30x40 feet, slate roof, hardwood floors, cement work, hot water heating, electric lighting, tile work, garage in basement. Sketches drawn.

NEW JERSEY Construction News

Hotel (alts.), Spring Lake, S. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, New Monument Hotel, Spring Lake, N. J. Remodeling and alterations. Preliminary plans in progress.

Lodge Building, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owners, Knights of Columbus, care of G. W. Goff, 221 North Warren street, Trenton, N. J. Brick, fireproof, concrete foundations, hardwood floors, electric lighting, tile work. Preliminary plans in progress.

Bank (alts.), 6 South Broad street, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton, N. J. Owner, Capitol City Trust Co., care of architect. New stone front, interior alterations, cork floors, tile, marble and terrazzo work, roof ventilators, hollow metal skylights, bank fixtures. Plans in progress.

Office and Garage, Flemington, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, Dr. G. S. Tompkins, on premises. Frame, 1 story, 30x40 feet, 19x19 feet, concrete foundations, slag roof, hardwood floors, electric light, tile work. Owner taking bids due October 7th.

Residence, Logan avenue, Treton, N. J. Architects, Fowler & Seaman, Broad St. Bank Building, Trenton, N. J. Owner, H. L. Townsend, care of architects. Brick, 2 stories, 20x35 feet, cement block foundations, slate roof, pine floors, hot water heat, electric light. Owner will sublet.

Bakery, Hobart and Olden streets, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, R. Ansel, on premises. Brick, 1 story, 40x80 feet, concrete foundations, asphalt roof, maple floors, electric light, wood skylights. Owner will sublet.

Home (add.), Jamesburg, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owner, State Home for Boys, care of L. L. Jackson, on premises. Brick, concrete, 2 stories, 24x22 feet, slate roof, composition floors, heating extension, electric lighting, hospital equipment. Low bidder: Carrol & Pullen, Princeton, N. J.

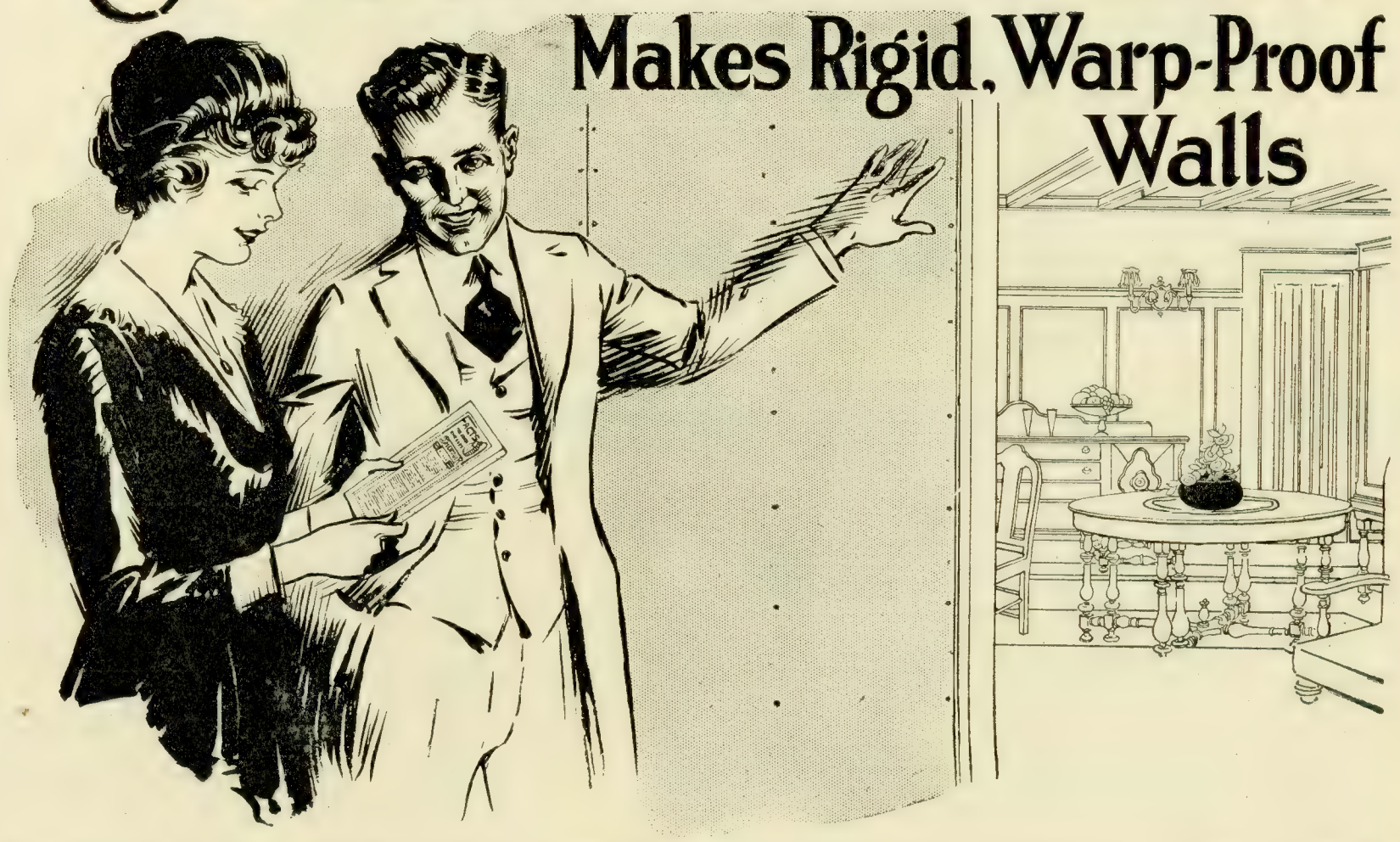
Club House, Linwood, N. J. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Linwood Country

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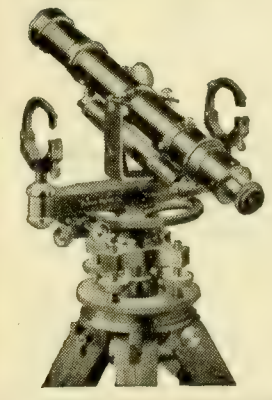


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New Jersey Contracts Awarded

Sales and Show Room, Florence, N. J. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owners, Florence Foundry Co., Florence, N. J. Brick, 2 stories, 50x120 feet, slag roof, pine floors, cement work, metal lath, plastering, stone foundations, steam heating, electric lighting, marble work, rolled steel sash, plate glass. Contract awarded to L. M. Shestack, 826 Arch street, Philadelphia.

Comfort Station (int. alts.), Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, City of Trenton, L. D. Hirsch, City Hall, Trenton, N. J. General interior alterations, plumbing. Contract awarded to C. Y. Barlow, Trenton, N. J.

Miscellaneous Construction News

Buildings, Spec. No. 4301, Bellevue, D. C. Architect, private plans. Owner, United States Government, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete and brick, office and laboratory, 3 stories, 200x60 feet, machine and testing shop, 2 stories, 300x82 feet, pattern shop, 2 stories, 100x60 feet, foundry, 1 story, 100x60 feet, power house, 81x69 feet, built-up roof, wood, tile and linoleum floors, waterproofing, iron work, hollow metal doors, rolled steel sash, steel work, tile and marble work, electric lighting, steam heating Owners taking bids due October 15th.

Service Station, Fifty-fifth street and Third avenue, New York City. Architects, William

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Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Exide Battery Co., Inc., 101 West End avenue, New York City. Reinforced concrete, 2 stories, 100x100 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting, rolled steel sash, iron work. Architect will build. Plans in progress.

Service Station, Toronto, Canada. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Exide Batttery Depots, Inc., 101 West End avenue, New York City. Reisforced concrete, 2 stories, 80x200 feet, slag roof, cement floors, steam heating, electric lighting. Architects will build. Plans in progress in Toronto office of William Steele Co.

Residence, Potomac Parkway, Washington, D. C. Architect, Albert Kelsey, Perry Building, Philadelphia. Owner, Glenn Stewart, Washington, D. C. Brick and stone, 3 stories, 55x150 feet, tile work, marble work, oak floors, hot water heating, electric lighting, tile work. Plans in progress.

Sales and Service Building, St. Paul and Centre streets, Baltimore, Md. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Joseph J. Greenberg, Morris Building, Philadelphia. Brick and concrete, 2 stories, 85x33 feet, slag roof, tile floors, metal lath, iron work, iron stairs, Bond, electric lighting, steam heating, stone foundations. Architect taking bids due October 7th. Note extension of ime. Standard Const. Co., 1713 Sansom street, Philadephia; West Const. Co., Morrow Bros., H. Calvin Barnes, Hicks, Tase and Norris, and Spencer Const. Co., all of Baltimore, Md., are figuring.

Office Building, Mercer and Calvert streets, Baltimore, Md. Architects, Wyatt & Nolting, Keyser Building, Baltimore, Md. Consulting engneer, Herman F. Doeleman, Baltimore, Md. Owners, United States Fidelity & Guaranty Co., on premises. Brick, steel and concrete, limestone front, 3 stories, 40x113 feet, provision to be made for 9 additional stories, slag roof, steam heating, electric lighting, tile and marble work, plumbing, iron work, hollow metal skylights, mill work. Architects taking bids due October 21st. Irwin & Leighton, 126 North Twelfth street; Hughes-Foulkrod Co., Commonwealth Building, and Standard Const. Co., 1713 Sansom street, Philadelphia, are figuring.

Storehouse for Combustibles, Spec. 4155, Nay Yard, Washington, D. C. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete and stucco, 1 story, 60x80 feet, built-up roof, concrete and maple floors, hollow tile, concrete foundations, rolled steel sash, hollow metal doors. Lowest bidder: Charles H. Tompkins, 1883 Third street, Washington, D. C., $37,000.

Miscellaneous Contracts Awarded

Residence and Garage, near Wilmington, Del. Architects, Mellor, Meigs & Howe, 201 South Juniper street, Philadelphia. Owner, Christopher Ward, Wilmington, Del. Stone, 2½ stories, 76x74 feet, garage, 24x40 feet, shingle roof, pine and cement floors, stone foundations, tile and marble work, iron work (heating and electric work reserved). Contract awarded to John W. Barnes, 10 East Forty-third street, New York City.

Store Building (remodeling), Fayette and Washington streets, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Levenson & Klein, on premises. General alterations to entire building. Contract awarded to George L. Schnader, Baltimore, Md.

Proposals

INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 21, 1920. Sealed proposals will be opened in this office at 3 P. M., October 26, 1920, for the remodeling and repairing of the United States Custom House and Post Office at Buffalo, N. Y. Drawings and specifications may be obtained from the custodian at Buffalo, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 27, 1920.—Sealed proposals will be opened in this office at 3 P. M., October 27, 1920, for the remodeling of the United States custom house and post office at Providence, R. I. Drawings and pecifications may be obtained from the custodian at Providence, R. I., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 30, 1920. Sealed Proposals will be opened in this office at 3 P. M., October 21, 1920, for remodeling Registry Room in the United States Post Office Building at Buffalo, N. Y. Drawings and specifications may be obtained from the Custodian of the building at Buffalo, N. Y., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

AS THE EDITOR SEES IT

(Continued from page 844)

four sub-committees of about three members each to meet with and function with, like Committees from the Council of the Associated Building Trades or with Committees of any branch of labor in the Building Industry not organized or not connected with said Council.

Each of the sub-committees suggested, if consisting of six members as indicated, to have a seventh member as Chairman, which member shall be an Architect or an Engineer selected by vote of the other six members. The chairman of the main Committee in each industry and a Secretary to be selected from among the Chairmen of the sub-committees.

(d) The sub-committee of the main committee now suggested for your consideration and for later joint deliberation are:

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This Committee would study the system evolved and maintained by unionized labor to see in what way it may be improved.

This Committee would ascertain also in what manner closer affiliation with the public schools and vocational training institutions in the Philadelphia District may be effected as well as how the system of indenture may be perfected through increased opportunities to be afforded by the employer. Native ability and individual initiative on the part of apprentices should be encouraged.

This Committee would work also with State and National Bureaus or Departments of Vocational Training where such activities will be mutually advantageous.

It is suggested that the present "Business Agents" of the Labor Union would become vocational officers, for through the effective operation of the Tribunal later mentioned, the services of these business agents may be devoted almost wholly to vocational training instead of only partially so as at present. This is but one of the economic features of the plan proposed.

Committee on Information for Journeymen: This Committee would maintain contact with the workers in the manner indicated in the program. It would provide speakers from the organizations of the employers and from producers and manufacturers of the materials connected with their industry, from allied industries, from national, state and municipal officials and authorities in these and other technical or educational fields in any way qualified to instil into the worker a greater familiarity with the materials, methods, tools and traditions of his own particular craft. Achitects and Engineers too, have been found who are willing and able to talk to and confer with the workers, to learn as well as to teach and to cause each to feel that his task is one of no mean importance and can be made, through interest and appreciation, to assume proportions measured by the satisfaction to be derived from a job well done.

As an instance of the possibilities which surround such proceedure the case of Bricklayers Local Union No. 1 need but be cited. Several Architects attended a preliminary meeting with the Bricklayers in the fall of 1919 and at subsequent meetings the men were addressed by persons prominent locally and nationally. These included officials of the Master Builders' Exchange, the Philadelphia Housing Association, the Board of Education, the Brick Manufacturers Association, the University of Pennsylvania, the U. S. Bureau of Standards, the Associated Metal Lath Manufacturers and others. An Architect during the last season conducted a constantly growing class on Plan-reading which together with the addresses and discussions just mentioned has had an effect upon the art of bricklaying which has created the greatest enthusiasm among the men in this locality and caused most favorable comment throughout the country.

Committee on Working Conditions: This Committee would co-operate with City, State and National Officials, Manufacturers, and Organizations in regard to Safety Codes, Fire-prevention, Scaffolds, Sanitation, Ventilation, Illumination and conditions in general as relating to mines, quarries, shops and to buildings during construction. This Committee to work for everything which will promote health, safety and efficiency in the building industry.

Committee on Materials and Methods: This Committee would be expected to familiarize itself with building code provisions, local material markets and conditions, to co-operate with city Building Inspection Departments, architects and others, to carry on research work and investigations in buildings undergoing construction, alteration, repair or addition, and by this and other means to determine facts wherever possible in relation to the characteristics of materials and to the methods best calculated to insure against decay, deterioration, or defects. Workers on buildings may assist those entrusted with the planning of buildings, execution of contracts and the inspection of structures by forming through this committee a clearing house for observations, the making of which and reporting thereon with subsequent discussion should be stimulated.

Finally: Heading up Committee to constitute the Tribunal or Council of the Building Industry for the Philadelphia Territory.

With the before mentioned program in effect the next step, which in reality would be collateral, would consist in the creation of a Tribunal or Council of the Building Industry for this locality.

The program now presented for your preliminary consideration contemplates creating this tribunal in the following manner and vesting it with the authority indicated.

To consist of one representative from each of the Main Committees in the Employers' Organizations or Groups, not less than nineteen, each selected by vote of the main Committee in each branch of the Industry.

And of one representative similarly chosen from the organizations or groups of the employed, not less than nineteen in all.

The officers of this Tribunal would, it is suggested, consist of a Chairman, two Vice Chairmen, a Recording Secretary, who would also act as Treasurer, and a Corresponding Secretary.

These offices to be filled as follows:

The two Secretaries to be the Secretaries of the Building Trades Employers' Association and of the Council of the Associated Building Trades. The two Vice Chairmen to be respectively the Presidents of these two organizations. The Chairman to be an architect selected by the entire Committee.

This Tribunal or Council would become the strategic board for the consideration and possible solution of all problems affecting the building industry as a whole and their relation to all factors in the community. It would have power to elect, and delegate certain authority to, an Executive Committee, to formulate rules of procedure, and to assign to any sub-committees of the Tribunal certain prescribed duties. Among these would be the adjustment of matters relating to conditions which might lead to strikes, lock-outs and other economic ills.

Fall Frolic of Philadelphia Builders' Exchange will be held Wednesday afternoon and evening, October 13, at Lu Lu Temple Country Club, North Glenside, Pa. Golf, pool, billiards, shuffleboards, cards, baseball, concert and vaudeville show. The Entertainment Committee assures all a most enjoyable outing.

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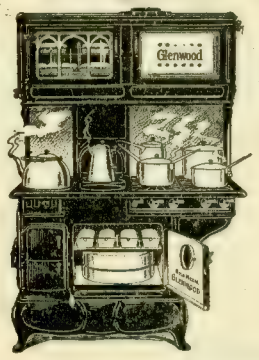
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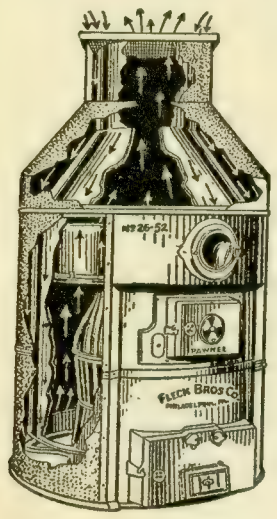


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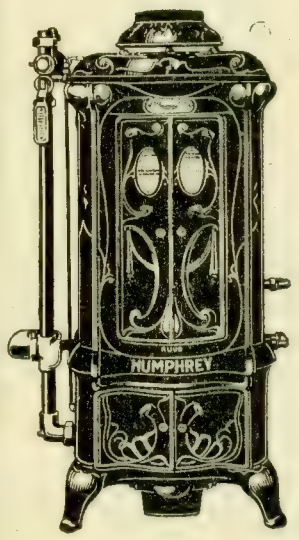
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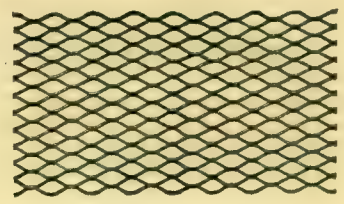
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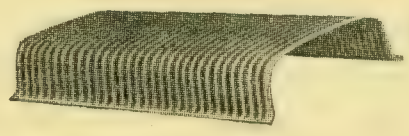
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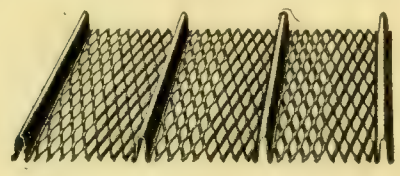
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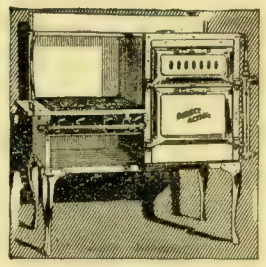


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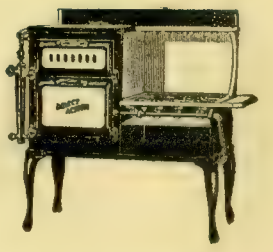
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October 13, 1920

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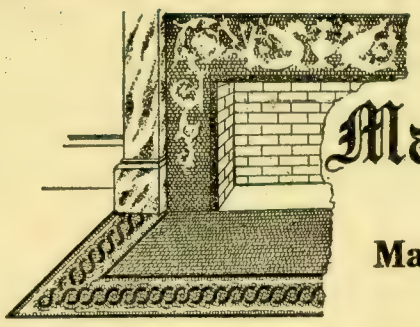
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 41

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As The Editor Sees It

THE ONLY REMEDY FOR THE HOUSING SHORTAGE

BY HENRY J. GIBBONS,

Attorney-at-Law and Member of Real Estate Board of Philadelphia

In 1884 John Wanamaker secured the last of the twenty pieces of ground comprising the lot which underlies his store at 13th and Chestnut Streets. He had been assembling this tract since 1875. During the ten years he paid for this ground 250 feet front on Chestnut by 474 feet north to Market Streets, $1,220,000. For thirty years he conducted there in a row of transformed brick dwellings on Chestnut Street and a former convention hall on the Market Street end (the City having obligingly vacated Kelly Street which formerly ran from 13th to Juniper 150 feet north of Chestnut) the splendid business which has made his name known all over the world. Then he commenced the erection of the massive 12 story structure of which the city is justly proud.

There went into this beautiful building the mental effort of an architect and his draughtsmen, as well as the engineer who superintended the work for Mr. Wanamaker, and the millions of foot-pounds of manual labor of all who toiled towards its completion. But all this mental and physical labor extending over a period of several years did not succeed in placing there when the great store was done value in excess of one-half what the 2¾ acres of dirt underneath it was worth. There stood the magnificient property, unique in location and floor space, but the ground was worth $12,000,000, and the building $6,000,000. Today both are worth more, the building probably $8,000,000 and the ground $15,000,000.

We have indicated who created the value of the building and all readers of this magazine know that the men who made that thing were paid for what they did. They added to the world's wealth. They earned money for their services and the material they had manufactured and supplied. And they were all entitled to it. Furthermore they were entitled to all of it, but the benevolent government under which we dwell took a good part of their earnings from them in the form of income tax, personal property tax, tariff duties on imports bought by these men from American shopkeepers, various excise taxes, license taxes, real estate taxes on their homes, factories, offices and shops. The government said it needed this money to keep its wheels oiled and itself from going out of business, 90% of it going to prepare for future wars and pay for wars that have been fought.

Very good. Such is life. We seem used to it. Some grumble at the increased taxes and high prices, but few are willing to exercise their brains and discover the cause of the trouble, the vicious circle we seem unable to break.

Returning to Wanamaker's Store, who created the increase of land value of $11,000,000 between 1884 and 1914? Every person who moved into the city during that period, every baby born in the city and all the people who lived here and hustled for food, shelter and clothing for themselves and their families. All right. Now who *got* the increased land value of $11,000,000? John Wanamaker. Did he earn it? Not in my opinion; nor in his own either. But the system not only permitted him to pocket it, but enabled him to borrow on the security of it $10,000,000. from the Land Title and Trust Company on first mortgage. Six per cent. on this mortgage is $600,000 each year, which he pays and collects in turn from the concern operating the store, John Wanamaker—Philadelphia, which in turn adds enough to the price of goods and refrains from adding enough to the wages of clerks in the stores to make up the amount. There you have it.

But don't misunderstand me. I'm not criticising this merchant prince, as an individual. He has been one of our greatest and most useful citizens and all should do him honor. IT IS THE SYSTEM WHICH ENABLES AN INDIVIDUAL TO ABSORB AS PRIVATE INCOME COMMUNITY CREATED VALUE. There is the trouble.

Furthermore, what did the individual do in this example to entitle him to this

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enormous sum? What manual or mental labor was furnished? None. It was altogether unearned.

Now, when some get what they don't earn, as certainly as night follows day, many others earn what they don't get, for the money has to come from somewhere.

But what has all this to do with the stringency of housing? Everything. It causes the cost of everything to be too high for any contractor to risk operative building on a sufficiently extensive scale to supply the demand for dwellings. This situation has existed in an increasingly aggravated form in this city for ten years. During that period the marriage licenses issued,minus the divorces granted (even though divorcees and their children must live somewhere) and making due allowance for a natural death rate and the flux of population, have far exceeded the number of houses erected.

Among the deterrents to building has been the high cost of land, for houses must have ground to stand on and three fourths of the area of the city has no structure on it, BUT IT IS ALL FOR SALE AT PRICES FAR IN EXCESS OF PRE-WAR FIGURES. To get anywhere with our building program, WE MUST HAVE CHEAPER LAND. The present system of multitudinous indirect taxation is an encouragment to hold land out of use, to buy it for speculation rather than use and to hold it at a high figure. We boast of the total of our land value in Philadelphia, $2,500,000,000, as something to be proud of.

But why should we rejoice in obligating ourselves to pay private individuals six per cent. on that amount each year, $150,000,000 or $85 for each man, woman and child. Remember, this makes an annual payment of $425 for every family (on the average basis of five members) before any of the regular direct taxes are taken into consideration to say nothing of the enhanced cost of every item of food, clothing and shelter by reason of the tariff and other delightful indirect taxes, the kind "we don't feel" because we don't see the incidence.

Land value cannot be hidden. There it is easy for every one to see. It would be easily appraised and collected, a single tax on land value; so we could then dispense with all the perjury surrounding the general property and income taxes, to say nothing of the horde of tax collectors and inquisitors as to our honesty. The cost of collecting all the petty taxes of today is appalling. The minimum expense would be entailed in securing this unearned increment for the community. As a result of the imposition of this tax, all such burdens would be removed from buildings and other improvements on land. No tariff or licenses would remain in vogue.

An enormous stimulation to building would result from cheapening the land, from the reduction of the price of material (due to the elimination of so many indirect and direct taxes that are added to the price of the goods), and the lifting of the intolerable burden under which industry staggers.

We tax dogs to reduce the number. In France where there was a tax on windows they built houses without them frequently or with as few as possible. We can't destroy houses by taxing them, but we can discourage their construction by continuing our present foolish methods. Instead of taxing for building and improving a lot, encourage the man by exempting all of his improvments and put the burden on the land. It can't run away, there will always be plenty of it. But we can cut down its cost, that is the important thing for readers of the BUILDERS' GUIDE to remember.

You can count on one hand the successful builders who have never been bankrupt, but you seldom hear of bankrupt land speculators. They "own" the commodity all must have to live, as essential to existence as light and air and water. Don't let these gentry, who are so numerous and ubiquitous on Real Estate Boards, pull the wool over your eyes. Tell them that you understand the single tax and it appears to you a good thing for the average man who earns his living by work, but a bad thing for the parasite who lives on the work of others and toils not himself at all.

* * *

August building statistics reported from the larger cities of the country show, according to the *American Contractor* that while there has been no perceptible gain over the preceding month's activity, the mere fact that there has been further recession is encouraging because during August the unfavorable influences hampering building have been itensified. During the month the advanced freight rates resulted in additions to the high prices of materials. The fact that building permits show no recession coupled with the fact that a better condition in transportation can reasonably be expected to take place, leads to the conclusion that the last four months of 1920 may see augmented plans for much needed building.

The valuation of permits from 177 cities for August, 1920, is $110,937,493 as against $161,977,270 for the same cities for the corresponding period in 1919. The number of permits has shrunk from 34,893 to 32,852. August,1919, was, however, the peak month in 1919 and from then on recession took place. This year April was the spectacular high month, after which building suffered adverses from unfavorable external influences. Chicago has suffered greatly the past month by the factors obstructing construction and August permits show over a million dollar decline from July. In one borough in New York City, Manhatten, on the other hand, there is shown a gain of over eight million,so that losses in one section are offset by gains in another and considering the country as a whole, more cities show gains than losses.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Garage, Seventh and Erie avenue, Philadelphia. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owners, Erie Avenue Auto Supply Co., on premises. Brick and steel, 2 and 1 stories, 30x40 feet and 30x40 feet, slag roof, cement and pine floors, metal lath, stone foundations, steam heat, iron work. Architect taking bids due as soon as possible. Henry P. Schneider, 3713 Old York road, is figuring.

Store Building (alts.), Broad and Snyder avenue, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, William Freihofer Co., Tenth and Indiana avenue, Philadelphia. Brick, 1 story, 10x60 feet, slag roof, cement and pine floors, stone foundations, steam heating, electric lighting. Architect taking bids due as soon as possible. Henry P. Schneider, 3713 Old York road, is figuring.

Factory and Warehouse (add.), 735 Cherry street, Philadelphia, $3,500. Architect, private plans. Owner, Max Rothstein, 1814 Sedgley avenue, Philadelphia. Brick and reinforced concrete, 3 stories, 6x30 feet and 17x30 feet, slag roof, pine floor, cement work. Owner will build.

Factory, Torresdale avenue and Bleigh street, Philadelphia, $75,000. Architect, H. Ward Easby, Crozer Building, Philadelphia. Owner, Philadelphia Dye & Finishing Co., Frankford avenue and Vandike street. Brick, steel and concrete. Preliminary plans in progress.

Garage and Store, Sixty-sixth and Haverford avenue, $12,000. Architect, John Patterson, 5533 Master street, Philadelphia. Owners, Rose M. Gerhard, 1330 North Fifty-sixth street, Philadelphia. Brick and steel, 1 story, 16½x161 feet, slag roof, hot water heat, electric lighting, cement floor, store, 1 story, 20½x20 feet, slag roof, hot water heat, electric light, pine floors. Owner will build.

Church and Parish House, Gaul and Berks streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, Holy Name Roman Catholic Church, care of Rev. Gregory R. Scholtz, on premises. Stone, brick, concrete and steel, 1 and 3 stories, slate and slag roof, steam heating, electric lighting. Plans about completed.

Residence (alts. and add.), 1815 Spruce street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Dr. James A. Kelly, 1510 North Seventeenth street, Philadelphia. General remodeling, new partitions, roof repairs, steam heat, metal lath, plastering, plumbing. Plans in progress.

Bridge, Forty-ninth street, over P. B. & W., Fortieth Ward, Philadelphia. Engineer, private plans. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Director Frank H. Caven, 416 City Hall, Philadelphia. Steel and concrete, 180 feet long, 76 feet wide. Owners taking bids due October 15th at noon. Monaghan & Losse, Inc., 3016 Chestnut street; American Steel Eng. Co., 10 South Eighteenth street; John N. Gill & Co., Otis Building; Ketcham & McQuade, 1029 Brown street; Robbins Cont. Co., 1137 North Front street, and Snare & Triest, Pennsylvania Building, Philadelphia, are figuring.

Property (alts. and add.), 1431 Diamond street, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Mrs. S. Stein, on premises. New slag roof, plastering, marble and tile work, metal stairs, hardwood floors, carpentry, mill work, electric work, plumbing and heating. Architect taking bids due October 19th.

Store and Dwelling, West Side of Fifty-second street, South of Locust street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, changing present building into store and (2) apartments. Brick add., 3 stories, 20x16 feet, slag roof, hardwood floors, metal lath, plastering, hollow metal skylights, tile work, electric lighting, hot water heating. Plans about completed. Architect will take bids in one week.

Residences (100), Vine, Sixty-fifth and Sixty-sixth street, Philadelphia. Architect, private plans. Owner, Frank A. Cavaliera, 409 North Simpson street, Philadelphia. Stone or tapestry brick, 2½ stories, garages in basement, slate and slag roofs, hardwood floors, hot water heating, electric lighting. Plans in progress. Owner will take sub-bids on (12) in about two weeks.

Store (alts.), Northeast Corner Fortieth and Market streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Stores Co., 44 West Eighteenth street, New York City. General alterations, flush bulks, electric lighting. Plans in progress.

Store (alts.), Southeast Corner Twelfth and Chestnut streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Retail Candy Stores, care of architect. Dumb waiter, carpentry, mill work, marble work, hardware, pine floors. Architect has received bids.

Residence (add.), front porch, North side Erie avenue, West of Fifteenth street. Architect, Paul Boyd, 5110 Warrington avenue, Philadelphia. Owner, Mr. Streeter, on premises. Stone foundations, 30x10 feet, slag roof, pine floors. Architect taking bids due as soon as possible. Henry P. Schneider, 3713 Old York road, is figuring.

Storage Building, 3041 Salmond street, Philadelphia, $7,000. Architect, private plans. Owner, John Borik, 3030 Richmond street, Philadelphia. Brick, 3 stories, 19x54 feet, cement floors, electric light, slag roof. Owner will build.

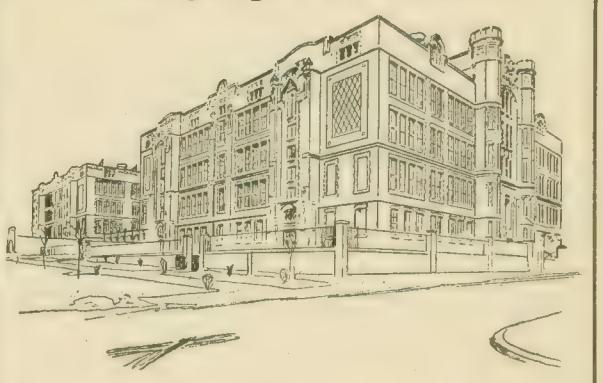
Fraternity Building, Southeast Corner Thirty-ninth and Spruce streets, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Z. B. T. Fraternity, on premises. Brick, 1 story add., slag roof, steam heating, electric work, plumbing, painting, papering. Architect will be ready for bids in a few days.

Building (alts.) to fourth floor, 1031 Market street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Frank & Seder, on premises. New slag roof, metal lath, plastering, carpentry, mill work, painting, glazing, electric lighting, plumbing. Architects have received bids.

Tank and Tower, 606 North American street, Philadelphia. Architect, Amos M. Barnes, 10 South Eighteenth street, Philadelphia. Owner, Gatti McQuade Co., 1416 Wood street, Philadelphia. Steel supports, cedar tank, 10,000-gallon capacity. Architect is taking sub-bids.

Residence (alts.), Thirteenth and Locust

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streets, Philadelphia. Architect, C. A. Ziegler, Bailey Building, Philadelphia. Owner, name withheld. General remodeling. Plans in progress. Too early for details.

Store Building (alts. and Add.), southeast corner of Twelfth and Walnut streets, Philadelphia. Architect, Geo. I. Lovatt, 416 Walnut street, Philadelphia. Owners, George Kelly Department Store, care of Continental Equitable Title and Trust Co., trustees, 12th and Chestnut streets, Philadelphia. General remodeling of entire building. Plans about completed. Architect will be ready for bids in a few days.

Offices, southeast corner of Fifteenth and Locust streets, Philadelphia. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owners Dr. E. R. Sausser and Dr. G. A. Coleman, on premises. Carpentry, millwork, electric lighting, mineral flooring, heating repairs, gypsum block partitions. Architects taking bids, due October 18th. Frank E. Wallace, 1220 Chancellor street; Pomeroy Const. Co., 1609 Ranstead street; E. E. Hollenback, Inc., 1804 Brandywine street; Robt. E. Lamb Co., 843 North Nineteenth street, and E. R. Hall, 34 South Seventeenth street, are figuring.

Nurses' Home, Broad and Mifflin streets, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Agnes' Hospital, on premises. Brick and limestone. Plans in progress. Too early for details.

Garages (11), north side of Louden street, east of Third street, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owners, Glanzburg & Mittelman, on premises. Brick, 1 story, 10x20 feet, cement roof, reinforced concrete floors, metal lath, stone foundations, electric lighting, glazing, central heating plant, structural steel. Owners are ready for sub-bids.

Store (alts.), Thirteenth and Filbert streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owners, Wm. Hopkins Co., on premises. General alterations, flush bulks, hardwood floors, tile work, new partitions. Plans in progress.

Manufacturing Building (alts. and add.), 917 Green street, Philadelphia. Architect, private plans. Owner, Monroe P. Lind, 1031 Race street, Philadelphia. Brick, 3 stories, 6x6 feet, slag roof, electric elevator. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Ice House (alts.), Eighth and Cumberland streets, Philadelphia. Architect, private plans. Owners, Breyer Ice Cream Co., on premises. Replacing windows with rolling steel doors, brick work, extension to platform, vitrified brick paving, cement work, insulation, structural steel. Contract awarded to William F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia.

Office Building (additional alts.), 1310 Arch street, Philadelphia, $7,500. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, United States Loan Society, on premises. Limestone work, plastering, plate glass, brick work, steel work. Contract awarded to Graham & Wells, 3649 Filbert [illegible], Philadelphia.

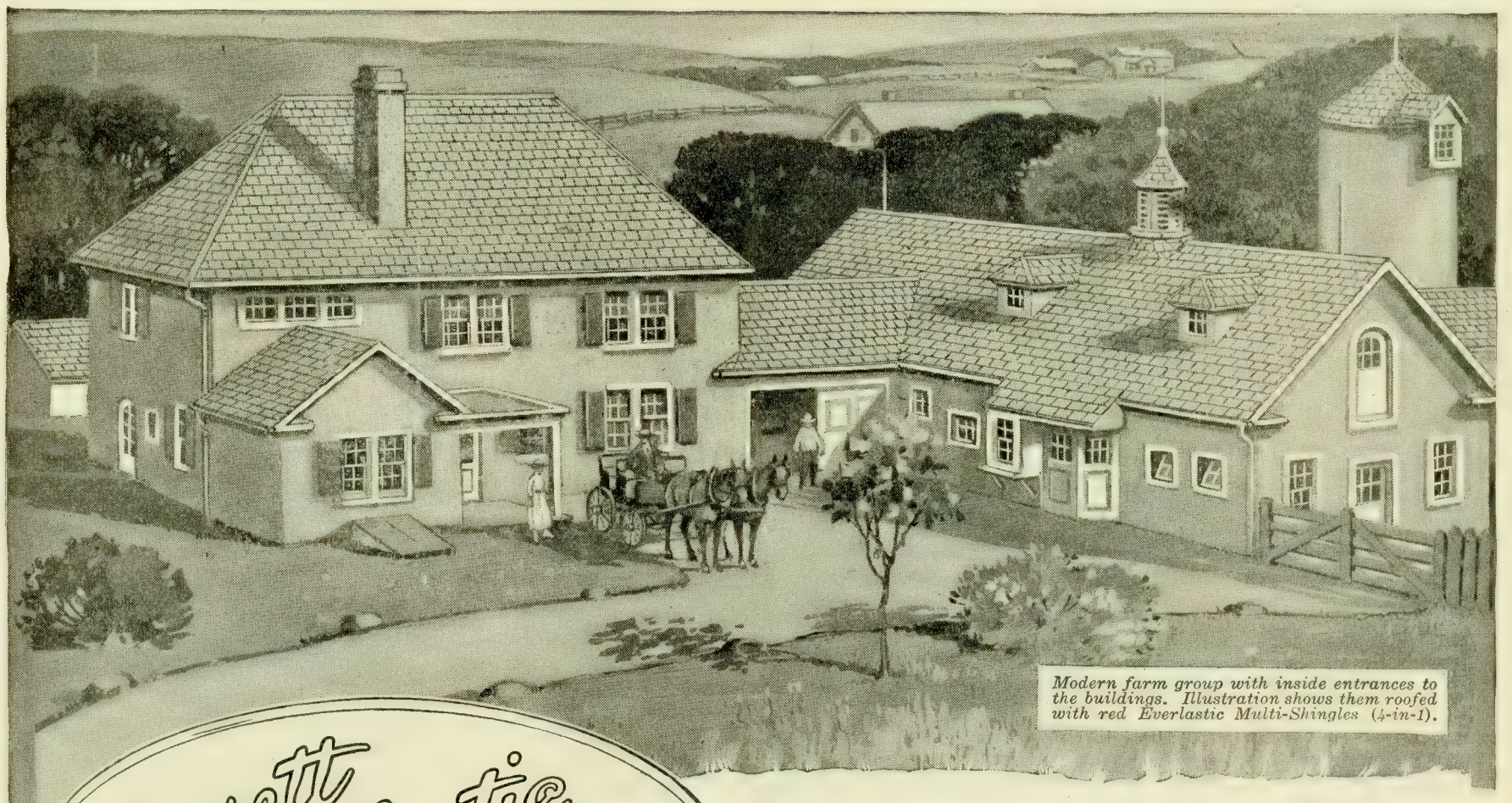
Store and Dwelling (alts.), Northeast Corner Eleventh and Christian streets, $6,500. Architect, private plans. Owner, Anthony P. Guinta, 1030 South Ninth street, Philadelphia. General alterations, electric lighting, brick work, carpentry, mill work, plate glass, hardwood floors, painting. Contract awarded to Cerasoli & Scurci, 1709 South Eleventh street, Philadelphia.

Shed, Northwest Corner Richmond and Tioga streets, Philadelphia, $5,500. Architect, private plans. Owners, Girard Smelting Co., on premises. Frame, 1 story, 135x52 feet. Contract awarded to M. Yacknitz, 1202 North Seventh street, Philadelphia.

Store and Apartments (alts.) and Garage, 5617 Market street, Philadelphia, $5,000. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owners, Gellgood Bros., on premises. Interior alterations, garage, brick, 1 story, 18x38 feet, slag roof. Contract awarded to B. C. Sagel, 563 North Second street, Philadelphia.

Warehouse (add.), Nineteenth street, North of Pennsylvania avenue, Philadelphia, $100,000. Architect, private plans. Owners, American Stores Co., Nineteenth and Hamilton

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Modern farm group with inside entrances to the buildings. Illustration shows them roofed with red Everlastic Multi-Shingles (4-in-1).

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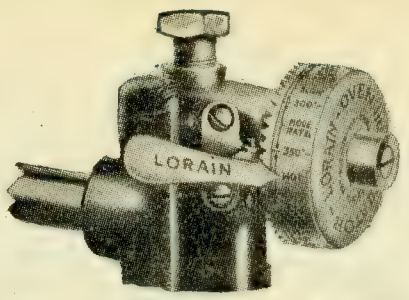
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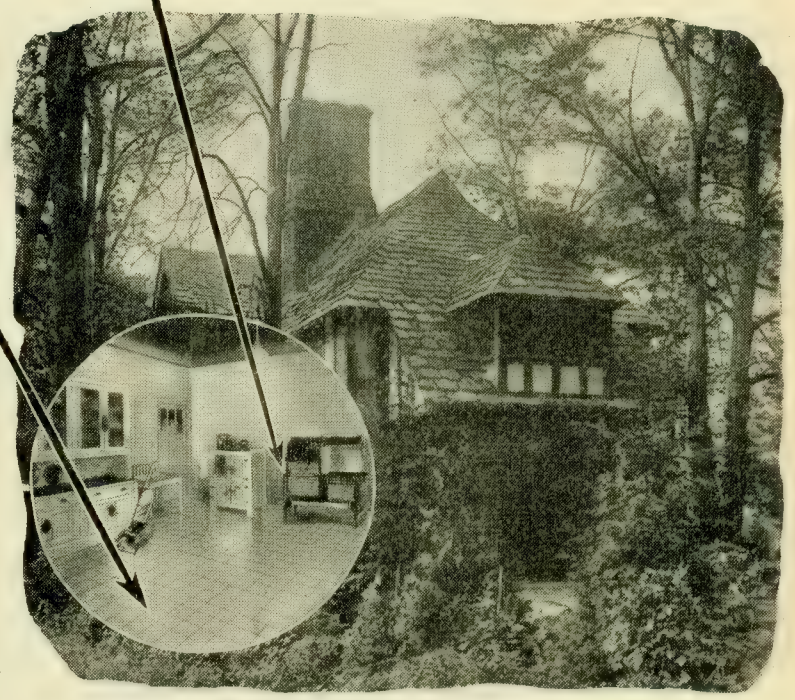
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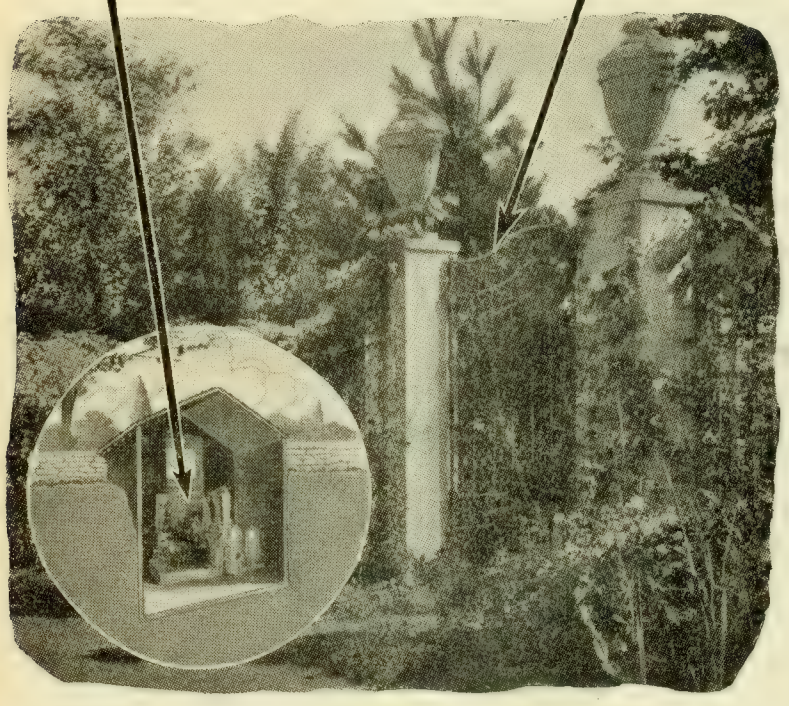
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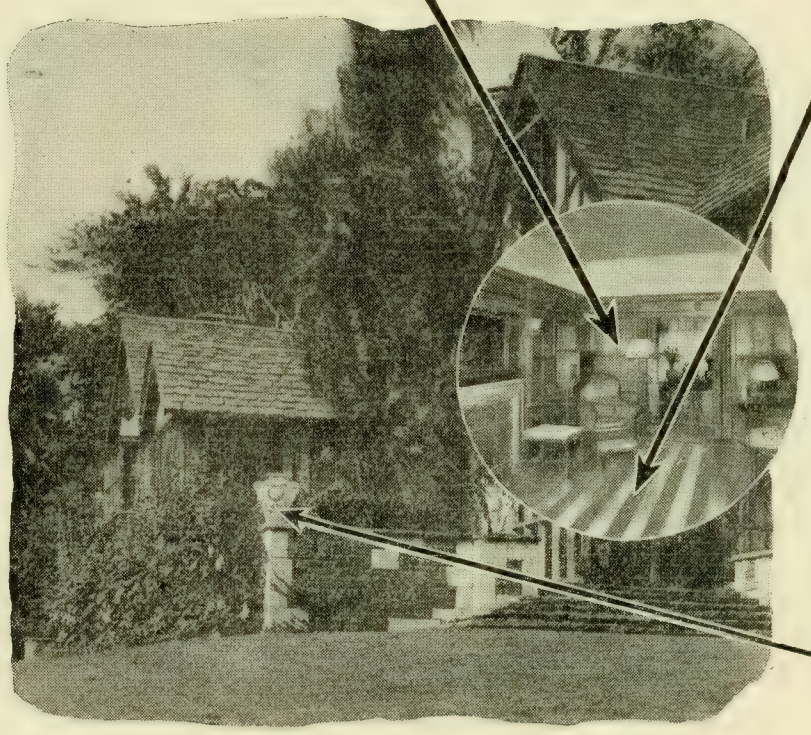
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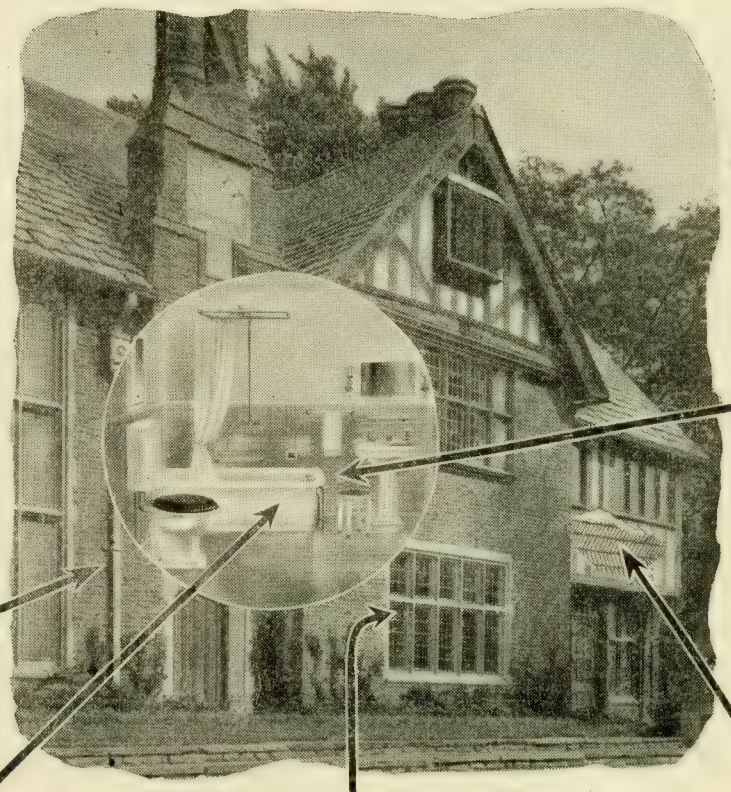


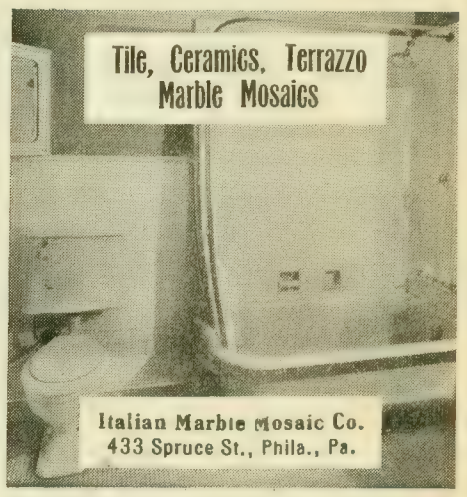


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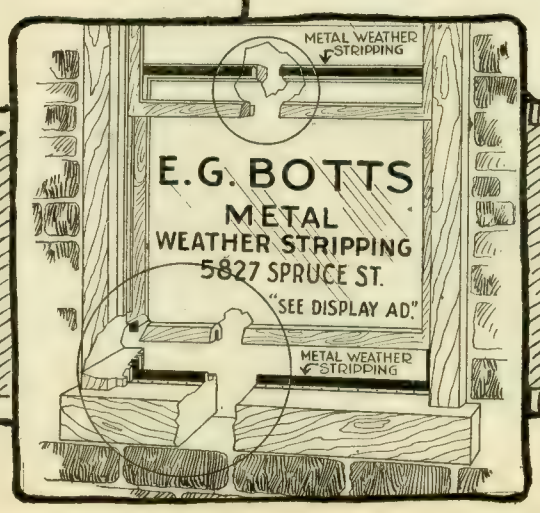




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streets, Philadelphia. Brick, concrete and steel, 5 stories, 40x87½ feet, slag roof, metal lath, rolled steel sash, elevators, electric lighting. Contract awarded to A. B. Kister, 2622 Parrish street, Philadelphia.

Office Building (add.), 112 North Broad street, Philadelphia, $19,000. Architect, Wesley Lesher Blithe, 608 Chestnut street, Philadelphia. Owners, Fidelity Mutual Life Ins. Co., on premises. Brick and concrete, raising roof two floors, addition to sixth and seventh floors, 9x15 feet, 5x16 feet and 54x29½ feet, slag roof, heating and electric light extensions. Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

Residences (3), 415-17-21 North Fiftieth street, Philadelphia, $12,000. Architect, private plans. Owners, Henry Quinn, 3626 Chester avenue, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, hot air heating, electric lighting, pine floors. Contract awarded to J. Forbes Wiley, 5000 Haverford avenue, Philadelphia.

Factory (alts.), 538-40 North Third street, Philadelphia, $10,000. Architect, private plans. Owners, Sleight Metallic Ink Co., 5907 Market street, Philadelphia. General alterations, steam heating. Contract awarded to F. Mark Cont. Co., 2820 North Twenty-first street, Philadelphia.

Meeting Rooms and Dwelling (alts.), 1327 Girard avenue, $3,500. Architect, private plans. Owners, Salvation Army, 120 West Fourteenth street, New York City. Carpentry, mill work, electric work, repairs to heating, metal lath, plastering. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Residences (2), North side of Durham street, East of Sprague street, $26,000. Architect, private plans. Owners, Sedgwick Farms Co., 7014 Boyer street, Philadelphia. Stone, 2½ stories, 28x39 feet, slate roof, hot water heating, electric lighting, oak and pine floors, iron work, tile work. Contract awarded to A. S. Tourison, Jr., 7014 Boyer street, Philadelphia.

Dwelling and Garage, Southeast Corner Fifty-eighth and Walnut streets, Philadelphia, $5,000. Architect, private plans. Owner, Dr. Marks, 701 Callowhill street, Philadelphia. Carpentry, steel work, cement work, electric work, tile work, plumbing, hot water heating. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Residences (2) (add.), 4939 North Broad street, Philadelphia, $5,000. Architect, private plans. Owner, H. A. MacAllister, on premises. Brick, 1 story, 16x50 feet, second story add., 16x40 feet, and second story add., 13x7 feet, slag roof, electric lighting. Contract awarded to G. Hemperley, 2014 Chestnut street, Philadelphia.

Store Building, 309 North Broad street, Philadelphia, $7,000. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owners, Universal Rubber Co., 320 North Broad street, Philadelphia. Brick and steel, 2 stories, 18x50 feet, slag roof, cement and pine floors, stone foundations, steam heating, electric lighting, marble work, plate glass, hollow metal skylights, metal ceilings. Contract awarded to N. Litman, 2030 South Fifth street, Philadelphia.

Mill Building, Cedar and Venango streets, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, A. Taylor Co., 1308 Commonwealth Building, Philadelphia. Brick, 1 story, 150x100 feet, slag roof, concrete foundations, steam heating, electric lighting, rolled steel sash, rolling steel doors. Contract awarded to John M. Kennedy, 406 S. Van Pelt street, Philadelphia.

Factory (fire repairs), 1406 South Front

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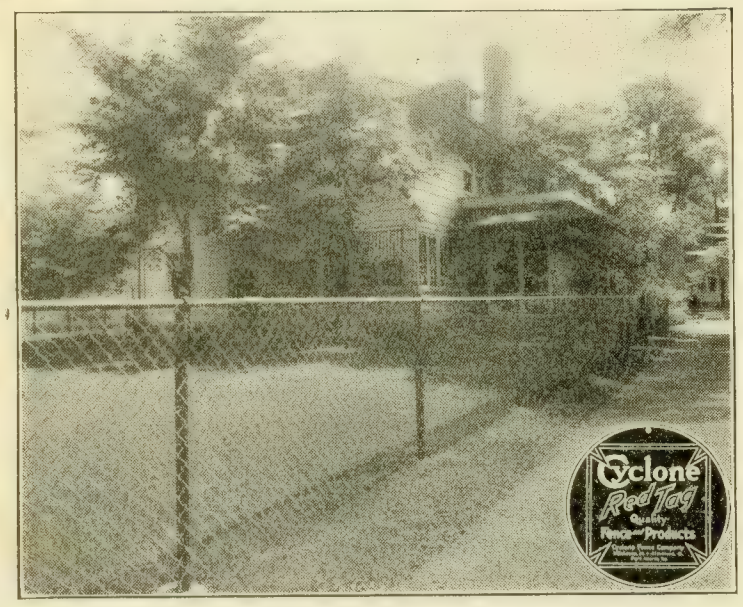
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street, Philadelphia, $5,700. Architect, private plans. Owners, A. Stuart & Sons, on premises. Carpentry, mill work, slag roof. Contract awarded to Charles R. Davis & Son, 1500 Ellsworth street.

Garage, 320-22 East Wildey street, Philadelphia, 5,000. Architect, private plans. Owner, Isaac D. Hetzell, 322 Richmond street, Philadelphia. Brick, 1 story, 37x60 feet, slag roof, cement floor, electric light. Contract awarded to Kaplan Paving & Const. Co., 320 Richmond street.

Store and Dwelling, 5102 Master street, Philadelphia, $4,500. Architect, private plans. Owners, Ottavio Torreri, 4946 Master avenue, Philadelphia. Brick, 2 stories, 16x60 feet, slag roof, hot water heating, pine floors, electric lighting. Contract awarded to John Negro & Son, 2846 Van Pelt street, Philadelphia.

Garage, Lawrence street, South of Pike street, Philadelphia, $4,000. Architect, private plans. Owner, John Frederich, on premises. Brick, 1 story, 15x85 feet, slag roof, cement floors, electric lighting. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Office Building, Northeast Corner Dager street and Levering avenue, Manayunk, Philadelphia. Architect, Frank V. Nickels, 4400 Main street, Philadelphia. Owners, Trumbull Waste Mfg. Co., on premises. Stone, 2 stories, 22x80 feet, slag roof, maple floors, metal lath, plastering, stone foundations, steam heating, electric lighting. Contract awarded to Brown Const. Co., 4700 Main street, Philadelphia.

Bank (alts.), 1006 Lehigh avenue, Philadelphia, $2,800. Architect, Charles S. Parker, 5018 Schuyler street, Philadelphia. Owners, Excelsior Trust & Saving Fund Co., on premises. Concrete vault, new mezzanine floor, slate roof, metal ceiling. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia.

Factory (add.), Southwest Corner Tioga and Memphis streets, Philadelphia, $9,000 Architect, private plans. Owners, Whitney MacDonald Co., on premises. Corrugated iron, 1 story, 60x60 feet, corrugated iron roof, cement floors, rolled steel sash, roof ventilators. Contract awarded to Amos S. Heffon, 635 West Hutchinson street.

Store and Dwelling (alts. and add.), 2833 West Girard avenue, $8,000. Architect, private plans. Owner, Albert Block, on premises. Brick and steel, 1 story, 18x30 feet, slag roof, pine floors, iron work, brick work, bulk windows, plate glass, plastering, painting. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

Commission House (alts.), 148 Dock street, Philadelphia, $6,400. Architect, private plans. Owners, Lulor & Finkelstein, on premises. General interior alterations, brick work, mill work, carpentry, electric work. Contract awarded to Simon Kaplan, 245 South Sixty-second street, Philadelphia.

Garage and Storage, 1105 North Sixty-third street, Philadelphia, $4,200. Architect, private plans. Owner, A. A. Oland, on premises. Stone, 2 stories, 23x25 feet, slag roof, pine and cement floors, electric lighting. Contract awarded to Charles Zonnini, 6239 Vine street, Philadelphia.



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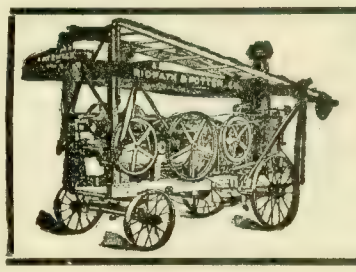
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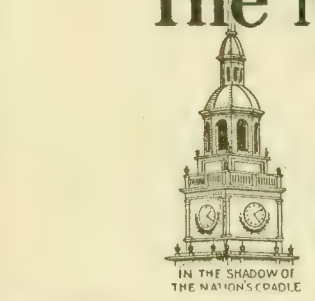
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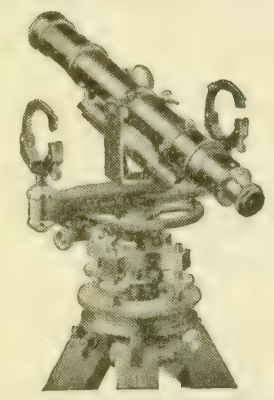
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Pennsylvania Construction News

Remodeling Church into Parochial School and Convent, Chester, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, St. Anthony's Roman Catholic Church, care of Rev. Antonio Garratino, 303 West Eighth street, Chester, Pa. Changing partitions, brick work, mill work, carpentry, general alterations, steam heating, electric lighting. Plans in progress.

Church (remodeling) to School, Phoenixville, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, Sacred Heart Roman Catholic Church, care of Rev. Oscar Shuster, Phoenixville, Pa. General remodeling into parochial school. New plans in progress.

Residence (alts. and add.), Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, John Watson, Philipsburg, Pa. Brick, 2½ stories. Plans in progress.

Residence (alts. and add.), Morris Run, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, William M. O'Donnell, Morris Run, Pa. Frame, 2½ stories, general interior alterations. Plans in progress.

Masonic Hall (alts.), Fourth and Market streets, Chester, Pa. Architect, private plans. Owners, Neisner Bros., Chester, Pa. Composition floors, marble work, structural steel, iron work, roof repairs, hollow metal skylights, pine floors, electric work, steam heating, elevator, metal lath, metal ceilings. Owners taking bids due October 15th. Chester Const. & Cont. Co., Otis Building, Philadelphia, are figuring.

Storage Building, Ardmore, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, Autocar Co., Ardmore, Pa. Corrugated iron, 1 story and basement, 75x200 feet, composition roof, cement and pine floors, electric lighting. Owners will sublet.

Packing Plant, Royalton, Pa., $150,000. Architect, private plans. Owner, Vogt Farms Product Co., care of Mr. Allen, 616 Penn Harris Hotel, Harrisburg, Pa. Brick, 60x200 feet, slag roof. Owners will build at once.

Residence (alt.) to Apartment, 218 Briggs street, Harrisburg. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owner, W. S. Young, on premises. General interior and exterior alterations, hardwood floors, electric lighting. Owner will build.

Hotel, Third and Walnut streets, Harrisburg, Pa. Architect, W. L. Stoddard, 9 East Fortieth street, New York. Owner, Penn Harris Hotel Co., care of E. Z. Wallower, president, Harrisburg. Reinforced concrete, terra cotta and stone, 12 stories, 126x200 feet, composition roof, steam heat, electric light, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal skylights, fire, kalamein and hollow metal doors, dampproofing, waterproofing, fire escapes, ornamental iron work maple, cement and pine floors, hollow tile, metal lath, elevators, roof ventilators, metal window guards, wire work. Plans in progress.

Store and Office Building, Windber, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, A. McNeal, Windber, Pa. Brick, steel and stone, 3 stories, 40x150 feet, stone foundations, slag roof, electric lighting. Plans in progress.

Garage, Bala, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, Louis Werlin, Bala, Pa. Stone, 1½

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stories, 20x20 feet, shingle roof, cement and pine floors (heating, electric lighting and plumbing reserved). Architect taking bids due October 15th. John E. Kearney, 34 South Seventeenth street; Charles C. Pace, Merion, Pa., and J. Howard Roberts, Lansdowne, Pa., are figuring.

Undertaker's Establishment and Apartment, New Cumberland, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, M. A. Hoff, on premises. Brick, 3 stories, 75x40 feet, stone foundations, composition roof, pine floors, vapor heat, electric light, metal lath, reinforced concrete (heating reserved). Architect has received bids.

Theatre, Chambersburg, Pa. Architect, H. G. Kilmer, Chambersburg, Pa. Owner, H. W. Carper, Farmers' & Mechanics' Trust Building, Chambersburg, Pa. Too early for details.

Entrance Gates, Lock Haven, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Lock Haven Hospital, Lock Haven, Pa. Stone, iron and brick. Plans in progress.

High School, Hamburg, Pa. Architect, F. A. Hersh, Altoona, Pa. Associate architect, F. J. Sholler, Altoona, Pa. Owner, High School District, J. S. Hepner, secretary, Hamburg, Pa. Brick, stone, steel, 3 stories, 85x130 feet, slag roof, composition floors, tile work, rolled steel sash, roof ventilators, dampproofing (plumbing and electric work reserved). Owner taking bids due as soon as possible. Beard Const. Co., Reading, Pa., are figuring.

Factory add.), Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owners, Eisenlohr Cigar Co., Reading, Pa. Semi-mill construction, 4 stories, 65x39 feet, concrete foundations, composition roof, wood floors, steam heating, electric lighting, steel beams and roof trusses, fire doors. Architect taking bids due October 15th. Beard Const. Co., J. C. Dethoff, Sharp Const. Co., D. H. Hunter and Charles Schlegel, all of Reading, Pa., are figuring.

Apartment, Fifth and Walnut streets, Reading, Pa. Architect, private plans. Owner, A. J. Fink, Penn street, Reading, Pa. Architect, private plans. Owner, A. J. Fink, Penn street, Reading, Pa. Brick and structural steel, 4 stories, 58 feet 5 inches x 37 feet, stone foundations, composition roof, hardwood and pine floors, steam heating, electric lighting, tile work, rolled steel sash, metal lath. Owner will build.

Church, North Chester street, Hanover, Pa. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. Matthew's Lutheran Church, care of R. R. Bergstresser, 55 Frederick street, Hanover, Pa. Stone. Too early for details.

Church, Johnstown, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Church of Brethren, Rev. J. Fremont Watson, Somerset street, Johnstown, Pa. Brick, stone trim, 1 story and basement, 60x135 feet, concrete foundations, slate roof, maple floors, steam heat, electric light. Preliminary plans completed.

Store and Apartment (alt. and add.), 724 West Cumberland street, Lebanon, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owner, L. Brenner, Fifth and Green streets, Lebanon, Pa. Brick, 2 stories, 34x150 feet, concrete foundations, composition roof, maple floors, vapor heating, electric lighting, tile work, rolled steel sash, interior alterations, plate glass. Plans in progress.

Residences (alts.) to Apartments, Fourth and Cumberland streets, Lebanon, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owner, R. Stine, Lebanon, Pa. New partitions, new plumbing, hot water heating, hardwood floors, electric wiring. Plans in progress.

Factory and Office, Reading, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owner, Schwartz Motor Truck Co., care of H. B. Schwartz, Reading, Pa. Brick and steel, 1 story, 440x90 feet, office 60x20 feet, slag roof, composition floors, concrete foundations, hot air heating, electric lighting, metal lath, rolled steel skylights, fire doors, vaults, dampproofing, gasoline storage system. Plans in progress. Architect will sublet.

Garage, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner's name withheld. Cinder, concrete block and stucco, 1 story, 65x85 feet, concrete foundations, slag roof, concrete floors, steam heat, electric light. Plans in progress.

Factory (alts. and add.), Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Consumers' Boxboard Co., care of H. J. Pierson, Lititz, Pa. Concrete block and stucco, 2 stories, 35x55 feet, concrete foundations, slag roof, maple and concrete floors, steam heat, electric light. Plans in progress.

Garage, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, H. J. Pierson, Lititz, Pa. Cinder concrete block, stucco, 2 stories, 25x40 feet, concrete foundations, tin roof, concrete floors, hot water heat, electric light. Plans in progress.

Service Building, Lancaster, Pa. Architect, M. R. Evans, 10½ Orange street, Lancaster, Pa. Owners, Lancaster General Hospital, care of M. Brightener, on premises. Concrete, steel, fireproof, 2 stories, 48x95

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feet, stone foundations, concrete roof and floors, electric light, kitchen equipment, refrigeration plant. Architect has received bids.

Residence (alts. and add.), Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, James Barnes, Philipsburg, Pa. Brick, 2½ stories. Preliminary plans in progress. Too early for details.

Pennsylvania Contracts Awarded

Y. W. C. A., Eighth and Washington streets, Reading, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owners, Y. W. C. A., Reading, Pa. Brick, stone, steel, 3 stories, 115x120 feet, stone foundations, composition roof and floors, electric lighting, tile and marble work, swimming pool, concrete floor, rolled steel skylights, roof ventilators, structural steel work, waterproofing. Contract awarded to Sharp Const. Co., Reading, Pa.

Residence and Garage, Chester, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 35x80 feet, garage, 22x38 feet, shingle roof, cement and hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Contract awarded to William Provost, Jr., Chester, Pa.

Residence (alts. and add.), Wyncote, Pa., $17,000. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owner, George H. Lorimore, Wyncote, Pa. Carpentry, mill work, hot water heating, tile work, plastering, pine floors. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Stable (alts.), Cedar road, near Elkins Park, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, W. A. Longshore, care of architect. General alterations. Contract awarded to E. Allen Reeves, Abington, Pa.

Buildings D. E, J, K and I, Byberry, Pa., $13,300. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Philadelphia Institution for Feeble Minded, care of Dr. C. Lincoln Furbush, Director of Department of Public Safety, 584 City Hall. General alterations, wire window guards, metal lath, plastering, repairing doors, painting, glazing, hardware. Contract awarded to Mitchell Bros., 2125 Race street, Philadelphia.

Bridge, over Lebanon Valley Division of P. & R. R. R., near Brownstone, Pa. Architect, private plans. Owners, Philadelphia and Reading Railroad Co., Twelfth and Market streets, Philadelphia. Reinforced concrete and steel, 5-track deck, clear span, 30 feet, clear heighth, 14 feet, waterproofing, Contract awarded to Bennett & Randall, Lebanon, Pa.

Station, East Greenville, Pa. Architect, Otto Herold, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Co., Twelfth and Market streets, Philadelphia. Frame, 1 story, 19x83 feet, asbestos built-up roof, pine floors, stone foundations, hot air heat, electric light, bond, iron work. Contract awarded to Heavner & Guthridge Co., Bover Arcade, Norristown, Pa.

Residence, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Moore, Lititz, Pa. Hollow tile and stucco, 2½ stories, 30x80 feet, concrete foundations, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Hershey Leyman, Lititz, Pa.

Garage, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Moore, Lititz, Pa. Hollow tile and stucco, 2 stories, 25x40 feet, concrete foundations and floor, slag roof, hot water heating, electric lighting. Contract awarded to Hershey Leyman, Lititz, Pa.

Miscellaneous Construction News

Dining Room (alt. and add.), Monmouth Hotel, Spring Lake, N. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Spring Lake Hotel & Realty Co., Spring Lake, N. J. Carpentry, mill work, shingle roof, maple floor, electric work, hardware, plastering, steel and iron work. Bond. Architect taking bids due October 20th. H. John Homan, 34 South Seventeenth street, Philadelphia, and Horace Moore, Spring Lake, N. J., and George C. Newberry, Pt. Pleasant, N. J., are figuring.

Muricipal Building, Theatre, Stores, Garages, etc., Cocoanut Grove, Fla. Architect, John Irwin Bright, Otis Building, Philadelphia. Owners, City of Cocoanut Grove, Fla. Concrete, hollow tile and plaster. Details undecided. Plans in progress.

Office Building, Mercer and Calvert streets, Baltimore, Md. Architects, Wyatt & Nolting, Keyser Building, Baltimore, Md. Owner, United States Fidelity & Guaranty Co., on premises. Consulting engineer, Henry Adams, Baltimore, Md. Brick, terra cotta, concrete, steel and stone, 4 stories, 114x39 feet, slag roof, cement, rezelite, tile, marble and terrazzo floors, metal lath, waterproofing, dampproofing, iron work, iron stairs, hollow metal doors, rolled steel sash and skylight, hollow metal sash, concrete foundations (heating, electric work and elevator reserved). Architects taking bids due October 20th.

Manufacturing Plant, Fort Wayne, Ind. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, International Harvester Co., Fort Wayne, Ind. Reinforced concrete and steel, 1 and 2 stories, irregular sizes, to cover area of 12 acres, slag and composition roofs, steam heating, electric lighting, rolled steel sash, elevators, sawtooth skylights. Plans in progress. Engineers will take bids in one month.

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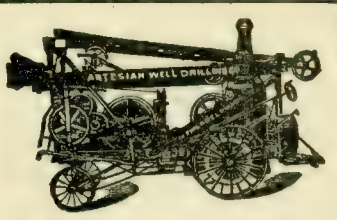
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Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 30, 1920. Sealed Proposals will be opened in this office at 3 P. M., October 21, 1920, for remodeling Registry Room in the United States Post Office Building at Buffalo, N. Y. Drawings and specifications may be obtained from the Custodian of the building at Buffalo, N. Y., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 11, 1920.—Sealed Proposals will be received separately, for the different materials and for labor by the different trades, and opened in this office at 3 P. M., November 8, 1920, for the construction of the United States Post Office at Front Royal, Va. Materials required will include concrete, reinforcing metal, stone, granite, brick, structural steel, structural terra cotta, miscellaneous iron and steel, composition roofing, waterproofing, sheet metal, plastering, interior marble, sanitary slate, lumber, millwork, painting, hardware, plumbing, heating, electric work, etc., in accordance with drawings, specifications, and bills of quantities attached thereto, copies of which may be obtained from the Custodian of the site at Front Royal, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

The stated meeting of the Master Builders' Corporation will be held on Tuesday, October 19th, 1920, at 1.30 P. M., for the purpose of considering and adopting proposed amendments and changes in charter and by-laws of this corporation.

Nominations for seven (7) Directors, to succeed those who terms expire at the end of the current year shall also be made at this meeting. These are made of the following classes: Building Contractor, Mason Builders, Painting Contractor, Plastering Contractor, Plumbing Contractor.

PARTIAL EXEMPTION OF HOME MORTGAGES FROM TAXATION

The New York City Club recommended to the Special Housing Session of the State Legislature, the appointment of state housing boards and use of state credits to apply to housing at low interest rates, without loss to the state, in obtaining homes for the workers. The Club opposes exemption of mortgage income from state and federal taxation but advocates local tax exemptions on single and multi-family houses for a limited period where construction is begun within one or two years after the law goes into effect, although taxes would still be levied on the land. This exemption would stimulate house building but not interfere with the necessary raising of public revenues.

VULNERABLE POINTS IN RESIDENCE CONSTRUCTION

That residences can be made measurably firesafe by protecting the vulnerable points with a base that will hold the plaster with a perfect key is being advocated by the Associated Metal Lath Manufacturers. Such protection as they advocate adds but little to the cost of construction, as they do not demand that metal lath be used throughout the entire house.

The vulnerable points selected are as follows:

1. All bearing partitions and studs in exteorior walls, including a basket to hold incombustile material as a fire stop.
2. Ceilings under inhabited floors, especially over heating plants and coal bins.
3 At chimney breasts, around flues and back of kitchen ranges.
4. Stair-walls and under-stairs
5. As a base and reinforcement for exterior stucco

N. J. LEGISLATURE MAY ADOPT NEW HOUSING BILL

A series of four bills designed to relieve the housing shortage which is now so acute in northern New Jersey, were introduced by the Legislature.

One of the housing bills provides that municipalities be given the power to adopt ordinances and inflict penalties wherever necessary, so as to protect the tenant against unjust discrimination.

Another of the bills exempts from taxation all improvements to real estate which are erected solely for dwelling purposes for five years from October 1, 1920. This exemption is made with this provision: That assessment for improvments shall in no case (except damage by the elements) be less than assessments for existing improvements on the real estate.

The third bill provides at least three month's notice for all tenancies from month to month, or less term where no term is fixed. This does not apply to farm letting, to notices served under existing laws, where tenants are disorderly, etc.

The last of the bills requires assessors to find out as fully as possible the possible cost of property, if it came through purchase, the rentals demanded or received from premises, and to take these two clauses under full consideration as two of the elements entering into and comprising values.

PEP PARAGRAPHS

A bluff's the stuff until it's called.

Some folks would rather travel than gravel.

Rain spells gain for the man who's on the job.

A man who's up in his line is seldom down in the mouth.

Enthusiasm is the motive power which speeds up a sale.

You get from life and marriage just what you put into them.

Progress is a slow, steady climb; retrogression is a toboggan.

Just because it'll come out in the wash is no reason for not trying.

You can't bring back what you've lost, but you can create something new.

Hard work, determination and foresight; they're the boys who bring home the bacon!

It's not the amount of time you spend on a certain venture that counts, but the way you spend it.

If you aren't getting what's coming to you, go to the guy who can give you what you want and let him know that you're living.

(Copyright, 1920, by S. A. Chandler.)

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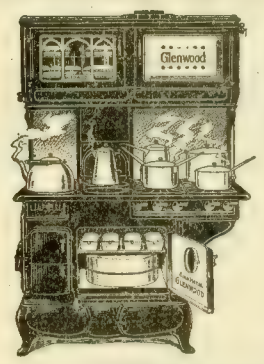
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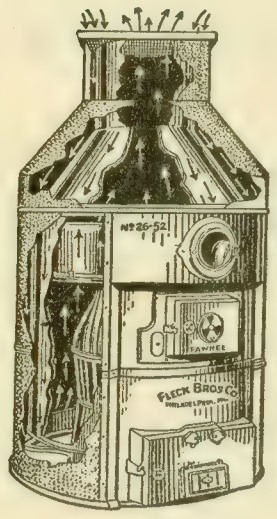


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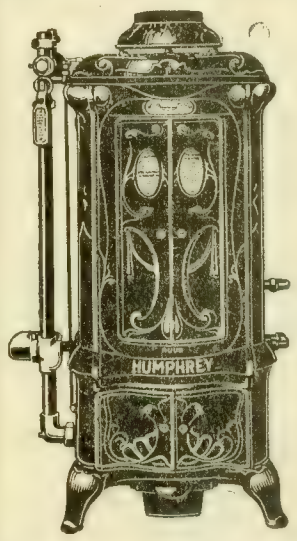
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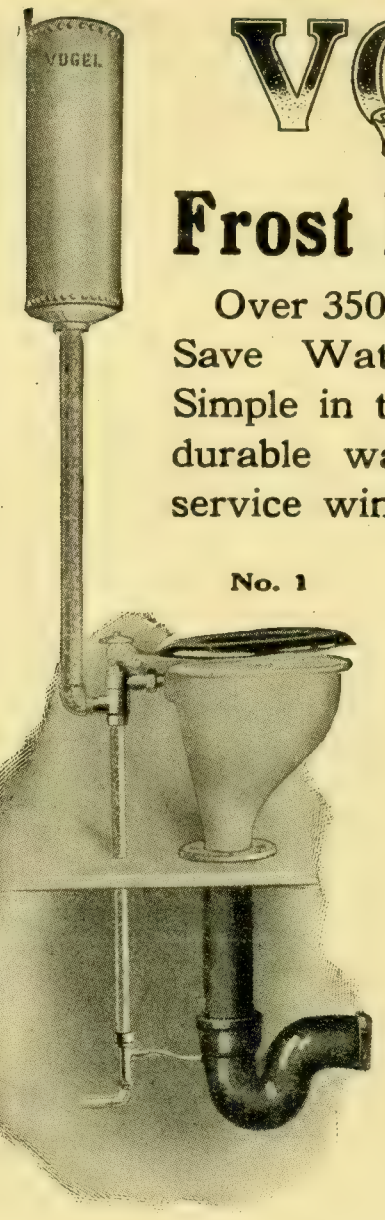
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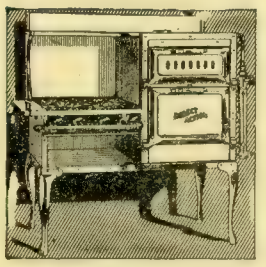


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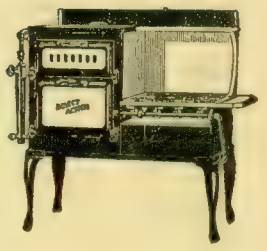
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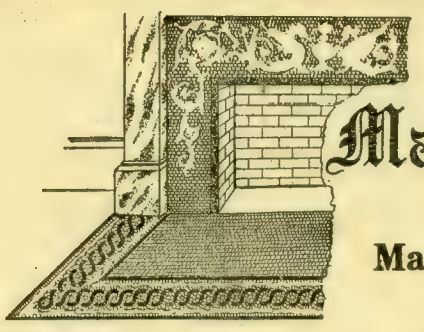
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
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As The Editor Sees It

OPTIMISM is the prevailing sentiment pervading business throughout the country today, and, in spite of the temporary set back which construction has received in the last few months, every one is preparing for great activity in building in the near future. The demand is there, and adjustments are under way to overcome the difficulties of the present situation. One of the greatest of these is the scarcity of money available for mortgages. Senator Calder is interested in this plan of the situation and suggest a revision of the excess profits law and a modification of the surtaxes so as to bring back to the building industry money that is now being put into tax exempt securities.

The *Builders' Journal* tell us that the Associated Metal Lath Manufacturers in a recent bulletin urge all connected with the building industry to take an active part in getting national legislation passed that will exempt mortgages on new homes from taxation.

The bulletin states that banks were obliged to stop construction loans, not because of prices of materials, but because they could not dispose of real estate mortgages to their customers. This was largely due to the Federal Income Tax which, with its heavy Surtax on the larger incomes, makes mortgage buying at 6% absolutely impossible. No one can blame the man with an annual income of $50,000 for refusing to make investments that will yield but $412 on every $10,000 when he can easily get $600. In the case of an income of $30,000 invested in mortgages there are Federal Normal and Surtax charges levied, making a total of 21% which must be deducted before the net income to the investor is found.

Investors are therefore putting their funds into municipal bonds which are tax exempt. To compete with these 6% bonds the banks would have to offer 7.6% interest on a taxable mortgage to an investor with a $30,000 income, or 8.7% to the $50,000 investor if he were to come out even. With mortgages tax exempt, however, they could readily be sold on a 5% and 6% basis.

Pessimism never does any good, but when optimism is backed up by sound economic conditions such as exist in the country today, there is every reason to look for success ahead. To quote Judge Gary:

"Optimism and hard work are what the country needs now."

We believe there are good prospects for harder work on the part of labor than has been in evidence recently, as the *National Builder* reports that in Detroit "some of the bosses declare that with them, labor efficiency has come back to where it was in 1914."

The impractical dreamers are not the architects, but the clients themselves, as a rule.

WORKINGMEN FAVOR OPEN SHOP

The practically unanimous approval of the open shop idea by the Chamber of Commerce of the United States prompted Samuel Gompers, president of the American Federation of Labor, to make a vicious attack on employers favoring the American plan. He denounced the open shop as an interference with the right of workers and declared it to be one of the coercive measures used by capitalists to injure labor. A splendid answer has been made to Mr. Gompers by C. Wilbur Miller, president of the Davison Chemical Company, Baltimore, in which he says:

"Mr. Gompers assumes, first, that he, as president of the American Federation of Labor, represents and speaks for the workingmen of the United States; and, second, that all employers are only thinking of themselves in approaching questions relating to labor. There is not the slightest foundation for either assumption, and it is because Mr. Gompers spends part of his time with the American Federation of Labor officials, who make themselves believe these conditions exist, and the rest of his time trying to convince the politicians his assumptions are correct.

"It makes very little difference what Mr. Gompers or his official family believes, but the American public and poli-

DRAWING MATERIALS

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ticians should know that the American Federation of Labor only represents a very small minority of workingmen, and many of this number are aliens without the suffrage. The employers represent the majority of American working men, and when they vote for the 'open shop' they cast the vote for this majority, as it is in this way they can be heard. If they did not vote for the 'open shop' they would all belong to the American Federation of Labor and there would be no discussion on the subject.

"Some months ago a committee of men from one of the plants I represent came to me with the complaint that the American Federation of Labor was turning the public against the workingman, and that they felt it was time for the employers of non-union labor to defend them and act as their spokesmen. Knowing that they threw into the bay a walking delegate who had the courage to enter our works to organize them, I sought their reason for their strong opposition to the unions. They were as follows:

"First. They strongly objected to the tyranny and selfishness of the labor union leaders.

"Second. They objected to being put upon the same level of less efficient or more indolent men.

"Third. They were indignant at the strife and hard feeling being stirred up between employer and employe and the general branding of the employer as a scoundrel and discredited person. They knew most employers were once laboring men and they hoped to be themselves or were educating their children to be employers and had no intention of tearing down their goal.

"Fourth. They felt the contact with the employer direct was more satisfactory and brought quicker and better results than through a medium which considered its own ends first and the men second.

"Fifth. That men out of the union got better wages and were much more contented. They looked upon the employer as a friend and leader and enjoyed working with him, instead of begrudging every service, knowing nothing individually counted.

"Mr. Gompers does not want to admit these facts. He found out in the steel strike a majority of workingmen wanted an 'open shop.' He knows that his power has only come from augmenting governmental control by frightening the timid politician with his soap bubble. Mr. Gompers realized some time ago that the majority of workingmen were with their employers and that if they all worked together in political matters the union would be an empty shell. It was for this reason that legislation was constantly directed against the employers to discredit him. Why cannot the politician remember the election between Mr. Bryan and Mr. Taft? Mr. Bryan accepted the plank on labor, of better labor unions, as written by Mr. Mitchell, and the A. F. of L. advocated his election, and yet Mr. Bryan got less votes than he ever received before.

"Put a labor union plank in the platform of either party and the majority of laboring men will vote against that party.

"The majority of workingmen, the majority of employers, the majority of salaried men, the majority of professional men, and, I believe, the majority of union laboring men, if they could speak their minds, believe in an 'open shop,' and all these classes are just as interested in the betterment of mankind as a few men who make a living misrepresenting the laboring man and the country.

"It is quite time that men representing the majority of men in this country who work with their hands and skill come to their defense. Most of the men employed at our works are my personal friends and I represent them when I speak on this subject or vote at the National Chamber of Commerce. If I did not, they would choose Mr. Gompers, by joining the union. They all know I voted for the 'open shop' and they all back it up, as do the employees of the other members who voted the same way."

—*Manufacturers' News.*

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Speed is largely concentration.

Doubt never won a fair damsel, nor landed an order.

Spuds grow in the ground, and you have to dig for 'em.

Don't argue with a man you want to get something from.

Don't worry over a loss; pitch in and cover it up with a gain.

Just because a horse starts out well, is no reason for slacking the reins.

It's said that time is money; then for Pete's sake, spend it where it'll buy the most.

It has been said that money is the root of all evil. Don't you believe it; idleness is the root of all evil.

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Percy Verance is a fine chap; he tears a leaf from the lay-book of a barn-yard fowl; that's why he makes good.

Just because some guy says that he'll do a certain thing you want done, is no reason for you to count on it's being done.

Persistence, force, courtesy and common-sense will crack the hardest nut, and there's a lotta satisfaction after the cracking.

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Bridge, Forty-ninth street over P., B. & W. R. R., Fortieth Ward, Philadelphia. Engineer, private plans. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, care of Director Frank H. Caven, 416 City Hall, Philadelphia. Steel and concrete, 180 feet long, 76 feet wide. Only bid submitted by T. F. Reilly, Fiftieth and City Line, $133,000.

Hospital (alts.), Thirty-fourth and Pine streets, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Department of Public Health, care of C. Lincoln Furbush, M. D., Director, 584 City Hall, Philadelphia. Laboratories, elevators, fireproof stairways. Owners taking bids due October 26th at noon.

Building, 328-30 Noble street, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owners, Keystone Table Mfg. Co., on premises. Brick and steel, 2 story basement, 111x38x21 feet, slag roof, pine floors, hollow metal skylights and cornice, stone foundations, iron work (electric lighting, elevator and plumbing reserved). Architect has received bids.

Refrigerating Plant and Office (add.), Fifty-sixth and Arch streets, Philadelphia. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owner, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Brick, 1 story, 12x40 feet, slag roof, concrete and pine floors, stone foundations, waterproofing, painting, plumbing, plastering, carpentry, mill work. Architect has received bids.

Stores and Dwellings (alts. and add.), 859-61 North Fortieth street, $3,000. Architect, private plans. Owner, Charles Bagelman, 4208 Wyalusing avenue, Philadelphia. Brick, 1 story, 20x28 feet, slag roof, electric lighting. Owner will build.

Store Building (alts.), 238 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Good & Friedman, care of Albert M. Greenfield, Morris Building. Bulk windows, plastering, carpentry, mill work, marble work, tile floors, oak floors. Architect has received bids.

Residences (3), North side of Chiveden avenue, East of Wissahickon avenue, Philadelphia, $45,000. Architect, private plans. Owner, Don Peters, 1410 Ruscomb street, Philadelphia. Stone, 3 stories, 28x39 feet, 2 stories, 14x11 feet, slate and slag roof, hot water heating, electric lighting, hardwood floors, tile and marble work. Owner will build.

Residence, Southwest Corner Grant avenue and Clark street, Philadelphia, $4,000. Architect, private plans. Owner, Charles W. Fowler, 1900 Fisher avenue, Philadelphia. Frame, 2 stories, 28x36 feet, shingle roof, steam heating, electric lighting, pine floors. Owner will build.

Pumping Station (alts.), Queen Lane, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Water, Room 788, City Hall. General alterations, excavation, lowering floor, stages, galleries and stairways in engine room, alterations in offices and dressing rooms, equipment, boilers. Lowest bid submitted by Edw. Fay & Son, 2 South Mole street, $58,827.

Residence (remodeling) into Locker House and Shower Room, Royborough, Philadelphia. Architect, J. S. Fuller, 1537 Chestnut street, Philadelphia. Owner, Green Valley Country Club, Roxborough, Philadelphia. Stone, add. 1 story, 26x15 feet, composition and cement floors, electric lighting, heating, plumbing and fixtures, new partitions. Plans in progress. Architect will be ready for bids in ten days.

Residences (6), Second and Clarkson streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone and brick, 2 stories, 14x40 feet, slag roof, pine floors, pipeless heater, electric lighting. Plans in progress.

Building (alts.), Southwest Corner Twenty-second and Arch streets, Philadelphia. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Belber Trunk & Bag Co., 1641 North Hancock street, Philadelphia. Carpentry, mill work, hollow tile, wall board partitions, cabinet work, electric work, painting, glazing, plastering. Architect has received bids.

Garage, Thirty-third street and Columbia avenue and Natrona street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, J. C. Ulick, care of architect. Brick, steel, stone and terra cotta and reinforced concrete, 1 story, 110x170 feet, slag roof, cement floors, metal lath, stone foundations, steam heating, electric lighting, plumbing, rolled steel sash, hollow metal skylights, rolling steel doors, plate glass. Architects have received bids.

Store (alts.), Southeast Corner Thirteenth and Filbert streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owners, William Hopkins Co., on premises. Carpentry, plastering, bulks, glazing, painting, tile work, steel work, marble work (heating, electric lighting and plumbing reserved). Architect has received bids.

Public Ward Buildings and Smallpox Cottages, Second and Luzerne streets. Architect, private plans. Owner, City of Philadelphia, Department of Public Health, C. Lincoln Furbush, M. D., Director, 584 City Hall, Philadelphia. Construction, erection, equipment, installation, additions, improvements, heating, lighting and plumbing. Owners taking bids due October 26th at noon. Note extension of time.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Frank H. Caven, Director, Room 232, City Hall, Philadelphia. Grading, paving, wood block and redressed granite block repaving. Owners have received bids.

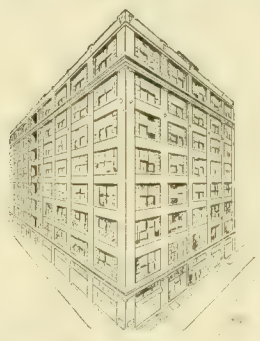
Residence (alts. and add.) to Store and Apartments, Southeast Corner Fifty-second and Columbia avenue, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, L. Kalis, 1754 Lindenwood street, Philadelphia. Brick, 3 story add., 16x12 feet, slag and tile roof, hardwood floors, hot water heat, electric lighting, tile work, metal lath, hollow metal skylights, cornice, metal ceilings, plate glass, flush bulks. Plans in progress. Architect ready for bids in a few days.

Garage, Second and Olney avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, 1 story, 60x100 feet, slag roof, cement floors, stone foundations, electric lighting. Plans in progress.

Garage, Twenty-first and Berks streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 1 and 2 stories, 75x110 feet, slag roof, cement and pine floors, stone foundations, steam heating, electric lighting, fire doors, hollow metal skylights. Architect will be ready for bids in a few days.

Administration Building, 8815 Seminole avenue, Chestnut Hill, Philadelphia. Architects, Willing & Sims, 1627 Sansom street, Philadelphia. Owners, Chestnut Hill Hospital, on premises. Brick, concrete and steel, 3 stories, 146x57 feet, asbestos asphalt roof, cement and composition floors, metal lath, waterproofing, iron work, iron stairs, Bond, tile, marble and terrazzo work, stone foundations. Architects taking bids due October 26th. William R. Dougherty, 1610 Sansom street; George S. Roth & Son, 230 East Graver's

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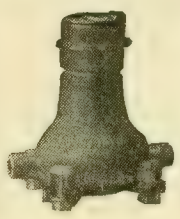


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Garage and Storage Building (alts.), 3013-15 Chestnut street. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Cement floors, repairing pine floors, electric work, steel work, painting and glazing. Owners will build.

Mill Building, Cedar and Venango streets, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, A. Taylor Co., 1308 Commonwealth Building, Philadelphia. Brick, 1 story, 150x100 feet, slag roof, concrete foundations, steam heating, electric lighting, rolled steel sash, rolling steel doors. Architect has received bids.

Sales and Service Station, 1603-05-07 Vine street, Philadelphia, $100,000. Architect, private plans. Owner, A. Hartman, 924 Bulletin Building, Philadelphia. Reinforced concrete and brick, 6 stories, 58x103 feet and 18x17 feet, slag roof, cement and reinforced concrete floors, stone foundations, rolled steel skylights, fire doors, ornamental iron work (heating, plumbing, electric work and elevators reserved). Owner will build.

Warehouse, Wyoming avenue, West of Third street, Philadelphia, $7,000. Architect, private plans. Owner, Andrew Peoples, Twenty-fifth and Callowhill streets. Brick, 1 story, 97½x54 feet, slag roof, cement floor, electric lighting. Owner will build.

Store and Warehouse, 1060 North Second street, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owners, Israel Furniture Co., 1054 North Second st., Philadelphia. Brick, 3 stories, 20x100 feet, slag roof, pine floors, metal lath, electric elevator, metal ceilings, dampproofing, plate glass, flush bulks, hollow metal skylights, marble work, electric lighting, steam heating, stone foundations, cornices. Owners are ready for bids.

Public Park (improvements), Cresson to Cotton street, between Silverwood and Rector streets, Philadelphia, Twenty-first Ward. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, Room 216, City Hall, Frank H. Caven, Director. Grading, installing storm water and sanitary drainage and water supply, concrete street footways, granolithic finish, armore concrete street curbs, concrete walks with brushed pebbles, concrete with granolithic finish at circle in park, stone walls, piers, steps, foundations and concrete landings with granolithic finish. Owners taking bids, due October 28th at noon. $5.00 deposit required for plans and specifications.

Church and Sunday School, Fifty-sixth and Willows avenue, Philadelphia. Architect, Chas. W. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Sherwood United Presbyterian Church, Rev. D. C. Fulton, 5541 Willows avenue; chairman Building Committee, Robt. Jensen, 5714 Hatfield street. Stone, 1½ stories, 63x69 feet, slate and slag roof, pine floors, stone foundations, steam heating, electric lighting. Architects taking bids, due October 28th. Thos. C. Trafford, 1613 Sansom street.

Mill Building (alts.), Howard and York streets, Philadelphia. Architects Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Estate of Thos. L. Leedom, on premises. Strengthening floors, new brick wall, iron work, painting of iron work. Architects taking bids, due October 20th. F. B. Davis & Son, 240 North Sixteenth street; Robert E. Lamb Co., 843 North Nineteenth street, and Barclay White & Co., 1613 Sansom street, are figuring.

Factory (alts. and add.), northeast corner of Richmond street and Allegheny avenue, $65,000. Architect, private plans. Owners, Baeder-Adamson Co., on premises. Brick and steel, 1 story, 59x127 feet, and 1 story, 79x97 feet, slag roof, cement floors, electric lighting. Owners will build.

Residences (4), north side of Pentridge st., east of Fifty-first street, $20,000. Architect, private plans. Owner, C. E. Biddle, 1105 Real Estate Trust Building, Philadelphia. Brick, 2 stories, 15x30 feet, 12x8½ feet, slag roof, hot water heating, electric lighting, pine floors. Owners will build.

Shop, 1834-36-38 North Sixth street, Philadelphia, $7,000. Architect, private plans. Owners, Wild & Doess, on premises. Brick, 1 story, 52x96 feet, slag roof, electric lighting, cement floor. Owners will build.

Dwelling, northeast corner of Wheatsheaf Lane and Salmon street, $5,000. Architect, private plans. Owner, S. Koleski, 3536 East Mercer street, Philadelphia. Brick, 2 stories, 16x52 feet, slag roof, steam heating, electric lighting, pine floors. Owners will build.

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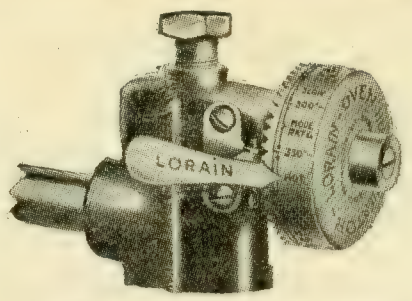
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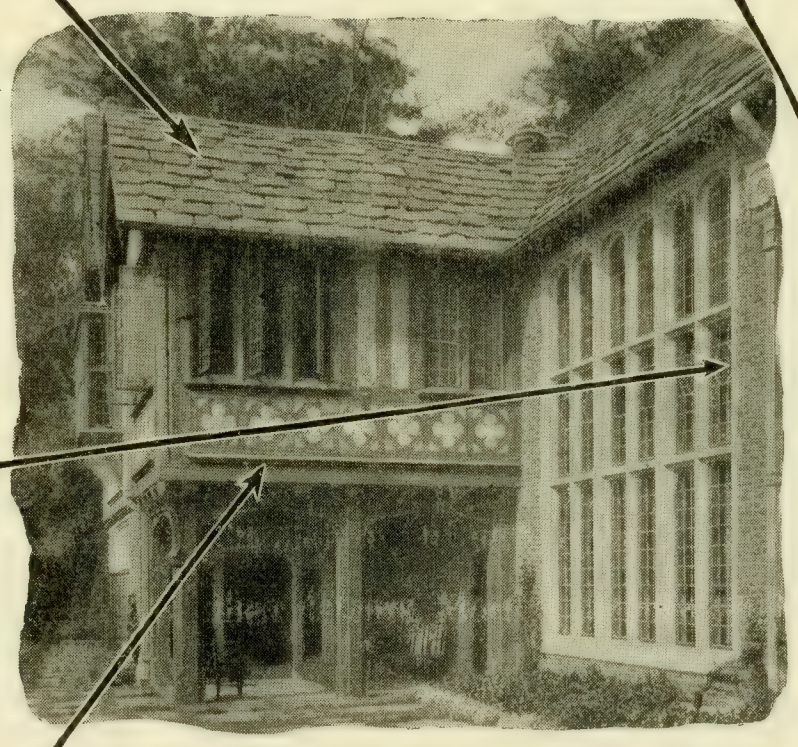
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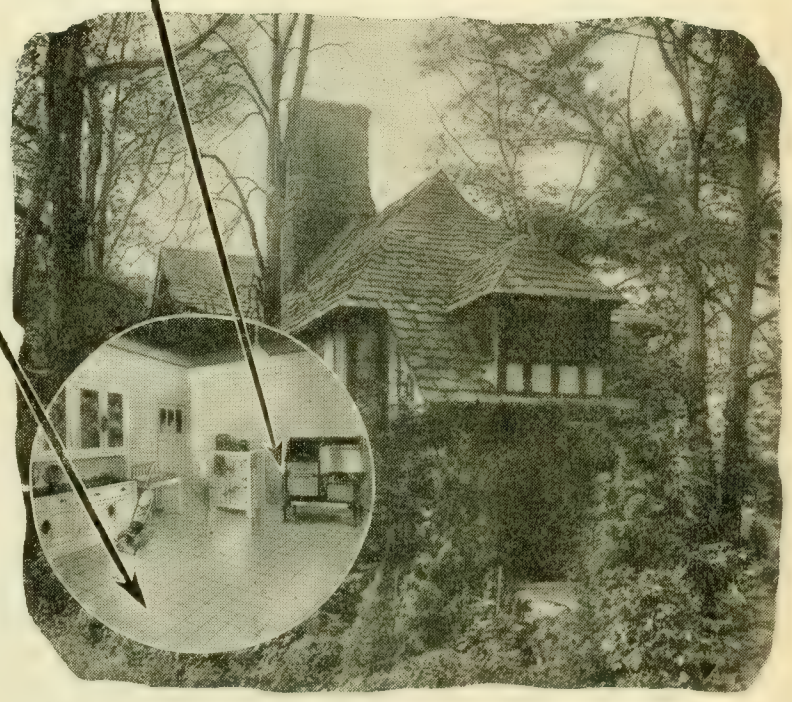
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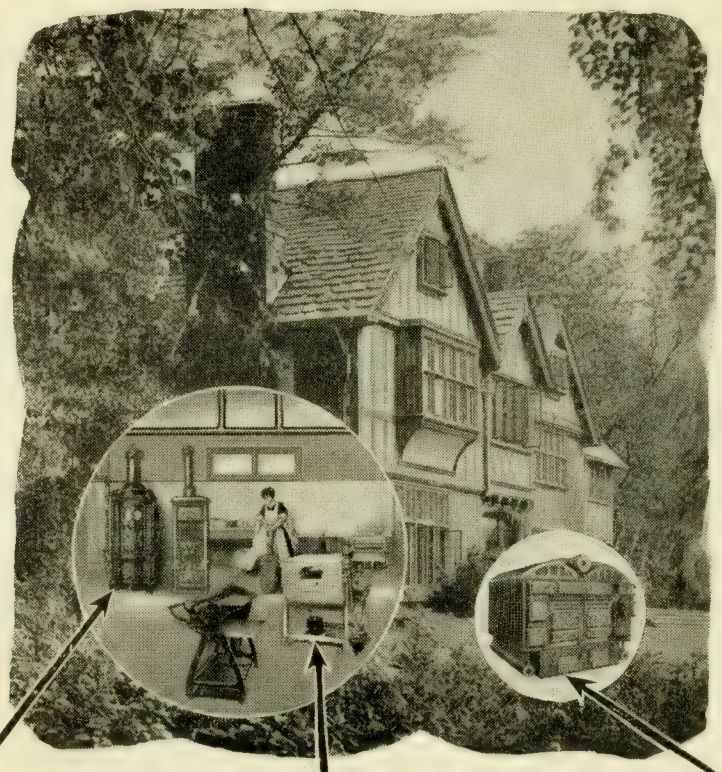


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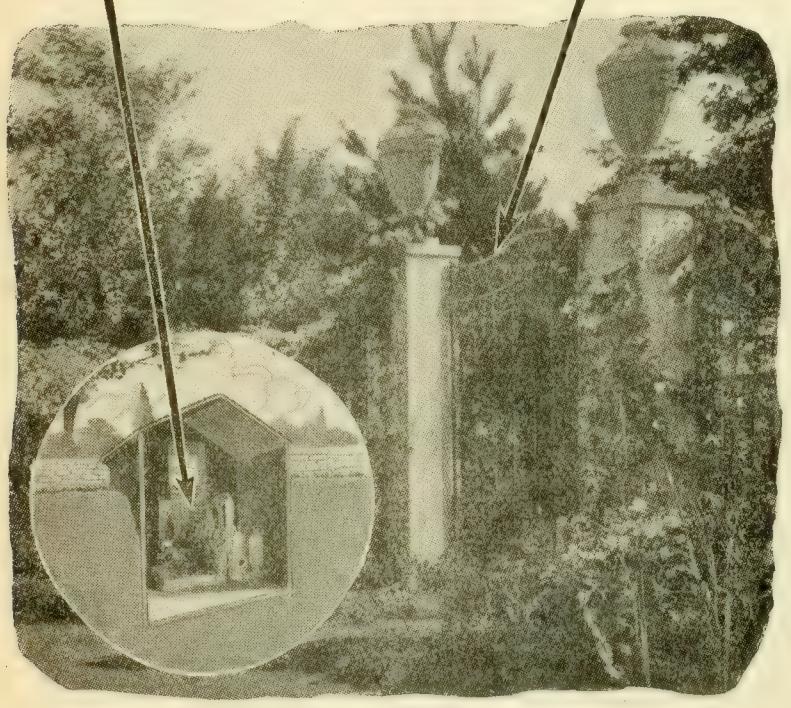
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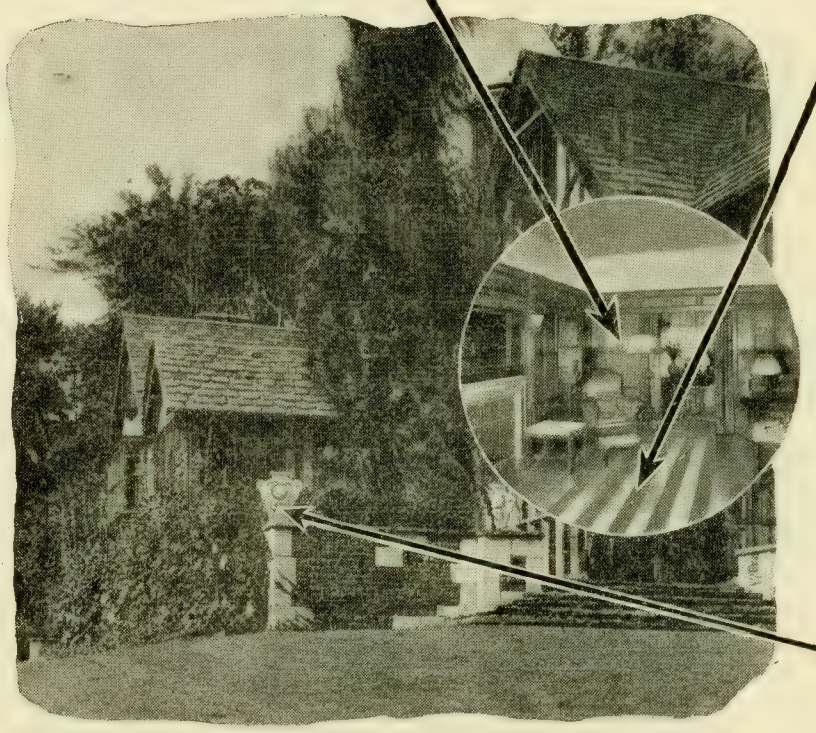
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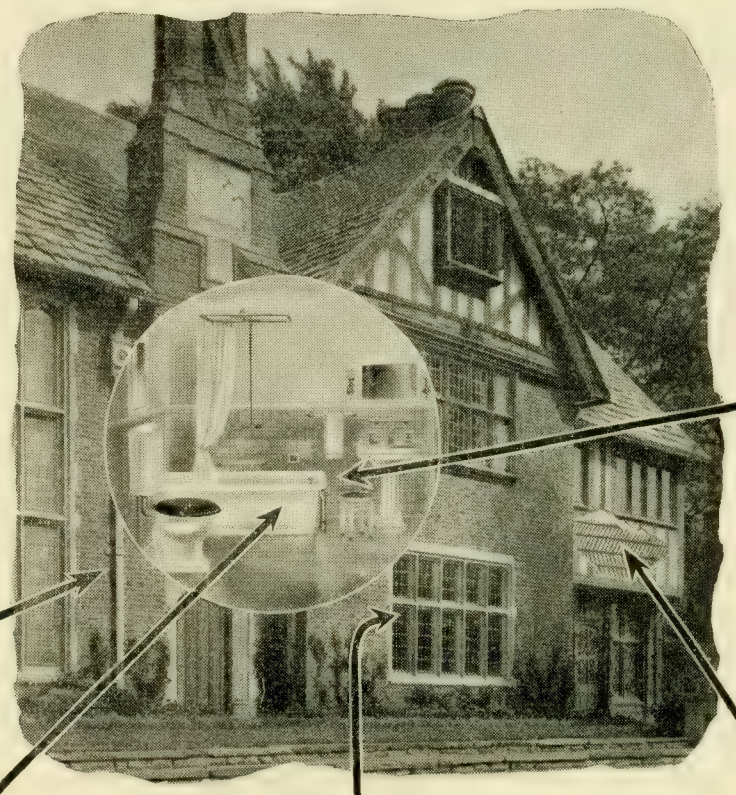
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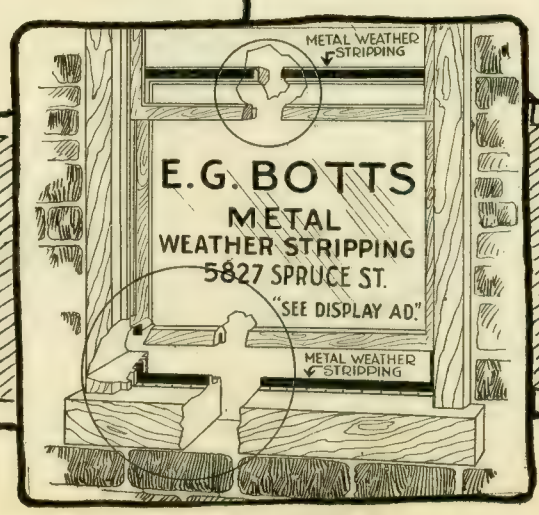
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, 1016 Westview street, Philadelphia, $5,600. Architect, private plans. Owner, M. H. Harrington, on premises. Brick, 1 story, 20x35½ feet, slate roof, cement floor, electric lighting. Contract awarded to General Const. & Eng. Corp, 7 South Seventeenth street.

Store and Dwelling (alts.), 1445 South street, Philadelphia, $4,800. Architect, private plans. Owner, Mrs. Simon, 1447 South street, Philadelphia. General alterations and fire escapes. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Church (add.), Southeast Corner Corinthian avenue and Girard avenue, $4,000. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Poor Clares, on premises. Brick, 2 stories, 12x20 feet, slag roof, electric lighting, concrete and pine floors. Contract awarded to William R. Dougherty, 1619 Sansom street, Philadelphia.

Shop, 1947 North Woodstock street, Philadelphia, $3,300. Architect, private plans. Owners, Glenwood Tile Co., 1944 North Twentieth street, Philadelphia. Brick, 1 story, 18x100 feet, slag roof, electric lighting. Contract awarded to I. Dande, 855 North Fifth street, Philadelphia.

Tanks (2), Richmond street, West of Frankford avenue, $10,000. Architect, private plans. Owners, G. & H. Barnett Co., on premises. Concrete and steel. Contract awarded to Drehmann Paving Co., Twenty-sixth and Parrish streets.

Garage, 1951 North Broad street, Philadelphia, $3,000. Architect, Dr. W. Richardson, 1953 North Broad street, Philadelphia. Brick, 2 stories, 18x31½ feet, slag roof, cement and pine floors, electric lighting. Contract awarded to Charles H. Shuster, 2109 North Seventeenth street, Philadelphia.

Building (alts.), to Fourth Floor, 1031 Market street, Philadelphia, $2.300. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Frank & Seder, on premises. New slag roof, metal lath, plastering, carpentry, mill work, painting, glazing, electric lighting, plumbing. Contract awarded to Pierce Henon, Inc., Bulletin Building, Philadelphia.

Hotel (alts.), Eleventh and Market streets, Philadelphia. Architect, private plans. Owners, Bingham Hotel, care of Norman Jeffries, on premises. Plastering, metal lath, electric work, heating, carpentry, mill work. Contract awarded to Pierce Henon, Inc., Bulletin Building, Philadelphia.

Store and Dwelling (add.), 1017 West Lehigh avenue, $3,850. Architect, private plans. Owner, John Nicholson, on premises. Brick, 1 story, 20x30 feet, slag roof, electric lighting, hardwood floors, carpentry, mill work, plumbing. Contract awarded to E. M. Mallo, 2657 North Second street, Philadelphia.

Garage, 4931 North Fourth street, Philadelphia, $3,500. Architect, private plans. Owner, Peter Lauro, 4927 North Lawrence street, Philadelphia. Brick, 2 stories, 16x46 feet and 24*x19 feet, slag roof, cement floor, electric

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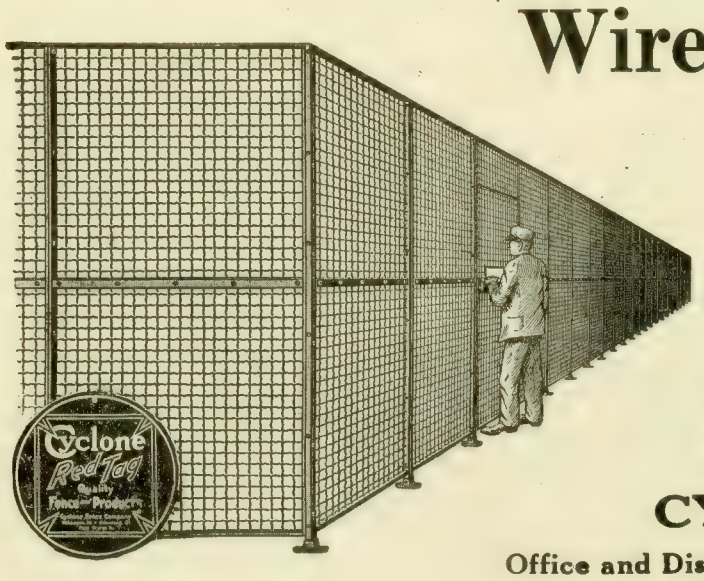
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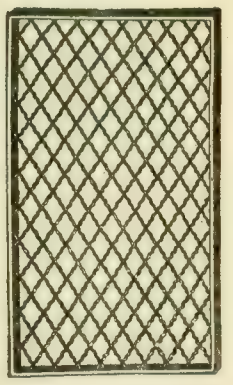


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lighting. Contract awarded to John Lauro, 4927 North Lawrence street, Philadelphia.

Garage, Residence (add.), 6703 Wissahickon avenue, $3,500. Architect, private plans. Owner, E. J. Hertz, Elkins Park, Pa. Stone, 1 story, 23x20½ feet, slate roof, cement work, electric lighting, and additional to residence. Contract awarded to Frank W. Carman, Jenkintown, Pa.

Garages (2), Sansom street, East of Fifty-first street, Philadelphia, $20,000. Architect, private plans. Owner, Harry D. Lyster, 4010 Baring street, Philadelphia. Brick, 1 story, irregular size, slag roof, electric lighting, cement floors, fire doors. Contract awarded to Edw. V. Holland, 1037 South Fifty-fourth street, Philadelphia.

School (alts.), Northeast Corner Fifth and Lindley avenue, $9,900. Architect, private plans. Owner, Rev. D. J. Dougherty, Eighteenth and Race streets, Philadelphia. New roof, copper work. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

Storage and Office, 1136 North Front street, Philadelphia, $9,500. Architect, private plans. Owner, H. L. Parker Co., 224 Market street, Philadelphia. General alterations and additions. Contract awarded to Frank G. English, 1608 North Carlisle street.

Garage and (2) Family House (alts.), Northeast Corner Norris and Watts streets, Philadelphia, $7,000. Architect, private plans. Owner, Dr. N. Richardson, 1953 North Broad street, Philadelphia. General alterations, electric lighting, hot water heating, hardwood floors, cement work. Contract awarded to Charles H. Shuster, 2109 North Seventeenth street.

Stores and Dwellings (2), 3954-56-58 West Girard avenue, Philadelphia, $7,000. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owners, Sax & Lipshutz, 818 South street, Philadelphia. Brick, 2 stories, 18x29 feet and 14x27 feet, slag roof, hot water heating, electric lighting, oak floors. Contract awarded to Max Sax, 818 South street, Philadelphia.

Residence (alts. and add.), Olney avenue near Wister street, Philadelphia. Architect, H. Brognard Okie, Crozer Building, Philadelphia. Owner, E. Stanley Perkins, on premises. Brick add., 2½ stories, 18x18 feet, shingle roof, pine floors, steam heating, electric lighting. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Apartments (alts.), 2401 East Cumberland stret, Philadelphia, $5,500. Architect, private plans. Owner, Charles N. McClure, Northeast Corner Cedar and Cumberland streets, Philadelphia. General alterations, electric lighting, carpentry, mill work, brick work. Contract awarded to Thomas Matthews & Son, 2330 North Hancock street.

Dwelling (alts.), 6637 North Eighth street, Philadelphia, $5,000. Architect, private plans. Owner, Howard Lincoln, Fourth and Brown streets, Philadelphia. Mill work, plastering, painting, tile work. Contract awarded to A. L. Fretz & Son, Heed Building, Philadelphia.

Buildings (alts.), City Line and Berwick road, Overbrook, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Episcopal Academy, 1324 Locust street, Philadelphia. Structural steel, brick work, mill work, carpentry, iron work, tile work, roof repairs, metal lath, painting (heating, electric work and interior painting reserved). Bond. Contract awarded to Charles C. Pace, Merion, Pa.

Offices (alts.), second floor, northeast corner of Tenth and Market streets, $8,000. Architects, S. S. White Dental Manufacturing Co., 211 South Twelfth street, Philadelphia.



Two Sides

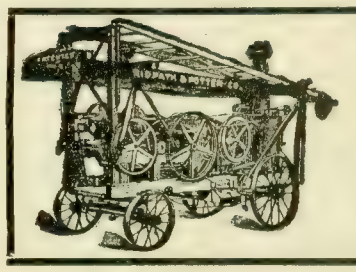
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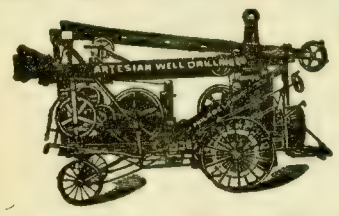
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Owner, Dr. Charles G. Algase, Medical Arts Building, Philadelphia. Millwork, plastering, painting, glazing, composition floors, plumbing, electric light, plate glass, flush bulks. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Store and Warehouses (alts. and add.), 145-149 Dock street and 116 Granite street, Philadelphia, $15,000. Architect, private plans. Owner, Chas. H. Peacock, 143 Dock street, Philadelphia. Brick and steel, 1 story, 12x8 feet, and 1 story, 8½x16 feet, slag roof, plastering, metal lath. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Store (alts.), southeast corner of Twelfth and Chestnut streets, Philadelphia, $12,000. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Retail Candy Stores, care of architect. Dumbwaiter, carpentry, millwork, marble work, hardware, pine floors. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Church, Greenway avenue, west of Seventy-second street, Philadelphia, $6,130. Architect, private plans. Owners, St. John's A. M. E. Church, on premises. Stone, 1 story, 26x81 feet, slag roof, electric light, pine floors. Contract awarded to Buckley & Garner, 318 Moore street, Darby, Pa.

Store and Dwelling (alts. and add.), 1419 West Girard avenue, $5,500. Architect, private plans. Owner, W. D. Feldman, 1345 Girard avenue, Philadelphia. Brick, 3 stories, 4x25 feet, slag roof. Contract awarded to B. Steinberg, 1544 North Seventh street, Philadelphia.

Moving Picture Theatre (add.), 2512 East Clearfield street, $35,000. Architect, Willis A. Hall, East Lansdowne, Pa. Owner, Wm. E. Butler, 2353 Clearfield street, Philadelphia. Brick, 1 story, 48x116 feet, slag roof, steam heating, electric lighting, cement floors, marble work, plastering, painting, ornamental iron work. Contract awarded to Campbell Const. Co., 1204 North Eighth street, Philadelphia.

PENNSYLVANIA
Construction News

Memorial Alumni Gateway, Lincoln University, near Oxford, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Phildelphia. Owners, Alumni, Lincoln University, near Oxford, Pa. Stone, ornamental iron, electric work. Plans in progress.

Church and Parish Hall, Twenty-third and Edgewood avenue, Chester, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, First Presbyterian Church, Mr. W. T. Galey, chairman, Chester, Pa. Brick, 1 story and 1 story and basement, 50x90 feet and 45x75 feet, stone foundations, slate roof, maple floors, vacuum steam heat, electric light, tile and marble work. Architect will be ready for bids November 1st.

Bank, Media, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, Media Title & Trust Co., V. G. Robbing, president, Media, Pa. Fireproof, brick, stone trim, 2 stories, 45x85 feet, slag roof, steam heat, electric light, marble work, hollow metal skylights, vaults, bank fixtures, iron work. Architect has received revised bids.

Convent, Chestnut Hill, Pa., $50,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Church of Our Mother of Consolation, care of Rev. N. J. Vasey, Chestnut Hill, Pa. Stone, 3 stories, 35x76 feet, stone foundations, tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Low bidders: M. Melody & Son, 1322 Race street, Philadelphia.

Residence, Eighteenth and Northampton streets, Easton, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Mr. Davis, care of architect. Frame, 2 stories, 18x40 feet, concrete foundations, slate roof, hardwood floors, hot air heat, electric light, tile work. Plans in progress.

Plant (add.), Now and Geopp streets, Bethlehem, Pa. Architects, Jurick Eng. Co., 120 Andt street, Allentown, Pa. Owner, Meyer Heyberger Ice Cream Co., care of W. Meyer, 67 West Geopp street, Bethlehem, Pa. Brick, concrete, steel, 3 and 2 stories, 100x34 feet, 111x67 feet, composition roof, concrete floors, electric lighting, roof ventilators. Architect will take bids.

Residence (add. and alt.) to Apartment, 1051 Washington street, Easton, Pa. Architect, A. D. Chidsey, Union Cigar Store, Easton, Pa. Owner, L. A. Sholts, 1051 Washington street, Easton, Pa. Brick, 3 stories, 15x30 feet, 10x20 feet, stone foundations, composition roof, pine floors, electric lighting, interior work. Architect ready for bids.

Theatre, 420-26 Northampton street, Easton, Pa. Architects, George Keister and A. R. Fretz, 56 West Forty-fifth street, New York. Associate architect, H. Anderson, 527 Hamilton street, Allentown, Pa. Brick, steel, fireproof, 1 story, 220x60 feet, concrete foundations, slate roof, composition floors, electric lighting, tile and marble work, cut stone work, safety treads, rolled steel skylights, kalamein doors, fire escapes, ornamental iron work. Architect taking bids due as soon as possible. Tilgham H. Moyer Co., 824 Hamilton street, Allentown, Pa., and Bechtel & Bechtel, Easton, Pa., are figuring.

Road Work, Pennsylvania. Owners, State of Pennsylvania, care of Lewis S. Sadler, State Highway Commissioner, State Capitol Building, Harrisburg, Pa. The following are the low bidders on the road work. Bids opened October 13th, 1920.

Allegheny County, Cheswick Borough, Route 70, length 3,606 feet. One course reinforced concrete. P. J. Ridge Sons Co., Pittsburgh, $116,484.95.

Beaver County, Appl. 1,236, Economy Township, length 3,641 feet. One course reinforced concrete or vitrified brick. J. B. Reed Co., McKees Rocks, Pa., $59,849.25.

Beaver County, Appl. 1,237, East Rochester and reedom Boroughs, length 4,375 feet. One course reinforced concrete or vitrified brick. J. B. Reed Co., FcKees Rocks, Pa., $77,211.30.

Beaver County, Rochester Township, Appl. 1,238, length 11,097 feet. One course reinforced concrete and Hillside vitrified brick. S. B. Markley, New Brighton, Pa., $149,-322.25.

Blair and Huntingdon Counties, Tyrone, Spruce Creek and Norris Township, Appl. 1,238, length 4,168 feet. One course reinforced concrete. Leo E. Kelly, Brooklyn, N. Y., $211,522.85.

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Bucks County, Tullytown Borough, Route 150, length 7,180 feet. One course reinforced concrete. Benj. Foster Co., Twentieth and Venango streets, Philadelphia, $117,371.29.

Chester County, Downington Borough, Routte 142, length 8,917 feet. One course reinforced concrete. Souder Const. Co., Lancaster, Pa., $131,224.40.

Clinton County, Flemington Borough, Route 58, length 4,265 feet. Either bituminous surface course on concrete foundation and Hillside vitrified brick or one course reinforced concrete. Hughes & Phillips, Clearfield, Pa., $78,966.50.

Erie County, Fairview Borough, Route Nos. 272-86, length 6,253 feet. One course reinforced concrete. Penn Const. Co., Erie, Pa., $98,058.70.

Erie County, Auth. 401-402-410, North East and Greenfield Townships, length 26,061 feet. One course reinforced concrete. Warren Bros. Co., Boston, Mass., $254,082.87.

Indiana County, White and Center Townships, Route 68, length 14,190 feet. One course reinforced concrete. McCrady Bros. Co., Braddock, Pa., $248,648.17.

Luzerne County, Dorranceton Borough, Routte 11, length 4,459 feet. Bituminous surface course on concrete foundation. H. B. Sproul Const. Co., Inc., Scranton, Pa., $109,466.90.

Lycoming County, Limestone Township, Route 176, length 2,835 feet. Bituminous macadam (penetration method). R. J. DeLong, Williamsport, Pa., $44,696.05.

Montgomery County, Upper and Lower Gwynedd, Whitpain, East Norriton Townships and North Wales Borough, Route 178, length 45,512 feet. One course reinforced concrete. Union Paving Co., Thirtieth and Locust streets, Philadelphia, $530,859.81.

Northampton County, East Bangor Borough and Washington Township, Route 166, length 6,317 feet. One course reinforced concrete and Hillside vitrified brick. R. D. Richardson Const. Co., Scranton, Pa., $116,130.63.

Somerset County, Berlin Borough, Route 51, length 2,998 feet. One course reinforced concrete. Keller & Ferner, Somerset, Pa., $58,810.50.

Washington County, North and South Strabane Townships, Route 181, length 22,845 feet. One course reinforced concrete and Hillside vitrified brick. Burgess & Dorrier, Scottsville, Pa., $317,494.60.

York County, Windsor Township and Windsor Borough, Appl. 401,402, length 10,202 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Whiting-Turner Const. Co., Baltimore, Md., $136,055.11.

Pennsylvania Contracts Awarded

Residence, Ridley Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, T. P. Ward, Delaware and Partridge avenues, Ridley, Pa. Frame, 2 stories, 22x34 feet, stone foundations, hot water heating, electric lighting, tile work, hardwood floors, shingle roof. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Residence (alts.), Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Frank X. Renninger, Glenside, Pa. Mill work, painting, slate roof, hot water heating, electric lighting, tile work. Contract awarded to Albert Zellfelder, 151 South Broad street, Philadelphia.

Residence, College Heights, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, R. S. Lutz, Allentown, Pa. Hollow tile, 1 story, 54x34 feet, concrete foundations, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to College Heights Co., College Heights, Pa., who will take sub-bids.

Hotel (alts. and add.), South avenue, Media, Pa. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owners, Media Title & Trust Co., Media, Pa. Composition floors, tile and marble work, hardware, carpentry, mill work, heating repairs, plumbing, electric work. Contract awarded to Whittaker Bros., Chester, Pa.

Cintering Plant Crusher Plant, Birdsboro, Pa., $140,000. Architect, private plans. Owners, E. & G. Brooke Iron Co., Birdsboro, Pa. Steel frame, asbestos protected metal, irregular size, asbestos protected roof, concrete floors, metal lath, roof ventilators, concrete foundations, rolled steel sash and skylights, fire doors. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building.

Ice Storage House, Chester, Pa., $50,000. Architect, private plans. Owners, Chester Crystal Ice Co., Chester, Pa. Brick, 60 feet high, 40x80 feet, wood-trussed slag roof, concrete floors and foundations, insulation (piping and lighting reserved). Contract awarded to William F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia.

New Jersey Construction News

School, Millville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, Board of Education, E. M. Brauen, president, Millville, N. J. Brick, 2 stories. Architect selected. Preliminary plans in progress.

Entrance Building, Rendezvous Park, Atlantic City, N. J. Architect, Philip M. Jullien, Commercial National Bank Building, Washington, D. C. Owners, Boardwalk Park Co., Morris Building, Baltimore, Md. Hollow tile, concrete and plaster, 2½ stories, 145x68 feet, Spanish tile and shingle roof, marbleloid, concrete and tile floors, marble work, roof ventilators, iron work, electric lighting, concrete piles (heating reserved). Architect taking bids due October 24th. John R. Wiggins Co., Otis Building; Standard Const. Co., 1713 Sansom street, Philadelphia; Thompson-Starrett Co., 49 Wall street, New York City, and Warren-Moore Co., Colonial Trust Building, Philadelphia, are figuring.

Storage Building, Maurer, N. J. Architects, Lockwood, Greene & Co., 101 Park avenue, New York. Engineer, Hardy S. Ferguson, 200 Fifth avenue, New York City. Owner, Barber Asphalt Paving Co., Land Title Building, Philadelphia. Brick, concrete and steel, 1 story, 43 feet high, 180x62 feet, slag roof, concrete and pine floors, iron work, stone foundations. Architects have received bids.

Residence, Vineland, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, name withheld. Hollow tile, 1 story, 34x46 feet, tile roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

Bakery (add.), East Orange, N. J. Architect, C. B. Comstock, 110 North Fortieth street, New York City. Owner, Ward Baking Co., East Orange, N. J. Concrete, brick, steel and terra cotta, 5 stories, 216x86 feet, compo-

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sition roof, concrete, cork and maple floors, metal lath, safety treads, waterproofing, iron stairs, hollow metal doors, rolled steel skylights, tile and marble work, stone foundations. Bond. Architect taking bids due October 30th. Warren-Moore Co., Colonial Trust Building, and Cramp & Co., Denckla Building, Philadelphia, are figuring.

Ceramic Building, New Brunswick, N. J., $100,000. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, New Jersey Agricultural Experimental Station, care of architect. Brick, terra cotta, tile, 2 stories and basement, 85x45 feet, concrete foundations, tile roof, concrete and tile floors, electric light, tile work. Sketches in progress.

Factory (add.), Seigel street, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owners, Jersey Keystone Wood Co., on premises. Frame, 2 stories, 32x 52½ feet, cement foundations, slag roof, cement and wood floors, electric lighting. Architect taking bids, due October 25th. Samuel Wiley, I. H. Clayton, Edw. La Rue and Frank Chapman, all of Trenton, N. J., are figuring.

Garage and Store, Clinton avenue, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton, N. J. Owners, Mr. John Zorn, care of architects. Brick, 1 story, 103x99 feet, concrete foundations, slag roof, pine and concrete floors, electric lighting. Architect taking bids, due as soon as possible. Thomas Day, Burton & Burton, J. H. Morris, C. J. Smith and Nathan Mulgaten, all of Trenton, N. J., are figuring.

New Jersey Contracts Awarded

Schools (2), Cedar Brook, N. J., and Sickerville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, Township of Winslow, care of Horace Angelow, clerk, Berlin, N. J. Brick, 1 story, 40x60 feet, slag roof, pine floors, stoves. Contract awarded to Voegtlin & Fearn, 223 North Forty-first street, Camden, N. J.

Machine Shop, Cumberland County, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, J. D. Shoemaker, care of architect. Concrete block, 1 story, 24x35 feet, asphalt shingle roof, cement floors, electric lighting. Contract awarded to H. H. Hankins, Bridgeton, N. J.

Bake House and Store, 503 Olden street, Trenton, N. J., $7,000. Architect, private plans. Owner, Alfred Rowley, 502 Olden st., Trenton, N. J. Brick, 1 story, 25x76 feet, concrete foundations, asphalt roof, pine floors, electric lighting. Contract awarded to R. Burgess, 346 Cleveland street, Trenton, N. J.

Home (add.), Jamesburg, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, State Home for Boys, care of L. L. Jackson, on premises. Brick, concrete, 2stories, 24x22 feet, concrete foundations, slate roof, composition floors, heating extension, electric lighting, hospital equipment. Contract awarded to Carroll & Pullen, Princeton, N. J.

Miscellaneous Construction News

School Building, No. 112, Baltimore, Md. Architect, J. E. Laferty, 522 North Charles street, Baltimore, Md. Owners, City of Baltimore, Baltimore, Md. Stone, brick and steel, 3 stories, 75x150 feet, slag roof, cement and pine floors, hollow tile, stone foundations, steam heating, electric lighting, rolled steel sash, fire doors, Bond, hollow tile, metal ceilings, dampproofing, ornamental iron work, iron stairs. Owners have received bids.

Plant, Wilmington, Del. Architect, William Higginson, 18 East Forty-first street, New York City. Consulting engineer, Robert Fayrekempt, New York City. Brick, steel and concrete, 9 stories, 400x600 feet. Owners, Wilmington Sugar Refining Co., care of Adolph Segal, Hotel Vendig, Philadelphia, and Belmont Apartment, Eighty-sixth street and Broadway, New York City. Plans in progress.

Theatre, Store and Apartments, 1317 Pennsylvania avenue, Baltimore, Md. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Douglas Amusement Co., Baltimore, Md. Brick, steel, stone and reinforced concrete, 4 stories, 157x70 feet, asbestos and asphalt roof, pine floors, hollow tile, metal lath, concrete and stone foundations, steam heating, electric lighting, tile and marble work, hollow metal skylights, fire doors, iron work, iron stairs. Owners will build. Architects are taking sub-bids on all lines for owners.

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.

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Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 14, 1920. Sealed Proposals will be opened in this office at 3 P. M., November 4, 1920, for the restoration of damaged portions of the United States Assay Office at New York, N. Y. Drawings and specifications may be obtained form the Supervising Chief Engineer, Room 731, United States Custom House, New York, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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DIFFICULTIES ENCOUNTERED IN THE INDUSTRY

Difficulties Encountered in the Industry—Suggested Remedies—Pertinent Reasons for High Costs—Labor Prolems—Future Holds Promise

Address by C. Clay Nims, President of the Ohio State Association of Builders' Exchanges, Before the Meeting of the Ohio State Association of Material Dealers at Cedar Point

In these times of industrial unrest there is need of a better understanding between contractors and material dealers—a more harmonious relationship should exist. Our interests are identical and by adopting mutually satisfactory policies, a well planned progam of distribution for available materials and labor, encouraging classes of buildings and improvements most needed and holding back others that can wait, we can render to the public a larger service, make better balanced communities, provide finer places in which to live and enjoy a much greater measure of satisfaction in the conduct of our business.

The building business in recent years has been established upon a much higher plane, and this has been possible because of associations, similiar in character to yours, where the contactor could meet others in the same line of work and study problems peculiar to their business, profiting by the knowledge of the experience of others. A few years back a contractor was looked upon as an unnecessary expense in the greater part of the building business, and all that he had to sell was his ability to get more work from labor. Today he is a real necessity, performing a distinct service, with mammoth organizations of men, great and varied equipment and machines, large purchasing and expediting power and a recognized factor in industry everywhere.

It is quite apparent that the material men have enjoyed the same, if not a greater, progress than the contractor. The time is past when we can buy our lumber from the saw-mill, our lime and cement from the manufacturer, and all the other materials entering into building construction. No contractor could conduct his business of the required materials were they not assembled in large supply sources where they can be distributed at the minimum cost, and I am inclined to believe that the larger and more centralized these sources become the better and cheaper the materials can be distributed. Another decided advantage in times of low production and shortage is the proper and more equitable distribution of materials. The buildings most needed by the community can be taken care of first and all can be required to curtail so that no favored few stand out conspicuously because their buildings are completed in record time at the expense of others.

While the past few months have been tedious for both material men and contractors, we have met them in a very commendable way. It should give us some encouragement for the period just ahead, which will differ in that we will find ourselves with plenty of material and few orders. Shortage of certain materials—caused largely by failure of transportation facilities—will be the chief reason for the piling up of locally manufactured materials, and such other materials that can be shipped. Even with the freight increase and with the railroad workers satisfied, shipping cannot adjust itself for some time. The railroads do not have the rolling stock, and I believe many more miles of track must be laid before shipping can be carried on in a volume adequate to our needs and doing away with tremendous bonuses. Until this is done, industry cannot greatly improve.

There are quite a number of ills, in addition to the transportation situation, that must be cured before we should expect a return to healthy business, and the sooner we recognize them as real and adjust ourselves in a way that eliminates them, the sooner good business will return. I am going to present a few of these for your consideration and thought, as I think they affect conditions today.

Extravagance.

A tremendous let-down occurred during the war period by everyone, and we did not correct ourselves when the war was over. No one individual or any particular class of men is altogether to blame—all acted under pressure of public sentiment. The responsibility can be passed right on to where it belongs, to the little fellow you always see pictured in between Labor, with its full dinner pail, and Capital, with its large stomach; little old Mr. C. P., which includes every one of us. All of us wanted what we wanted and wanted it when we wanted it, and it seems to me that that pretty nearly sizes up our whole trouble. The high cost of commodities can be traced to this attitude that was so common and so contagious that few escaped. I wonder how many of us have stopped long enough to study the excess costs—purely bonuses—due to wanting things when we wanted them. May I take the time to recite a few examples? I could use all of the time that has been allotted to me in simply giving similar instances that have come under my personal observation. A large manufacturing concern not far from Cleveland, in keeping with the times, decided to distribute its product from Cleveland to New York by motor trucks and procured a fleet of trucks on open contract to make the trip, leaving material at Buffalo, New York, Cumberland, Philadelphia and Pittsburgh, and picking up raw material on the way back to the factory. It cost $21,000, taking twenty-eight days to make the trip. The total cost of rail shipment (and I took

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the time to check with the rate clerk personally) would have been $960. The total excess bonus cost was just $20,040. Do not take these figures as a fair comparison between truck hauling and railway shipping, as in many instances certain hauling is cheaper by truck. I recite this example to give you some idea of how far astray a policy of get-what-we-want-and-fix-the-price-later may lead us. Think this over and if you find it necessary to call upon your bank for additional funds in the next few weeks you will not feel so badly when your reception is not so courteous as usual. Capital cannot be attracted to help finance waste of this magnitude, and it goes pretty nearly into everything we do under prevailing conditions. Coal at $8.50 per ton, common brick at $30.00 per thousand, cement at $5.50 per barrel, common mill lumber at $85.00 per thousand cannot and will not continue, or if it does our industry must stand still.

In our jobbing department the other day we were in need of three pieces of material, nothing special or complicated about the requirement. Our Superintendent, following his usual custom, called upon Mr. A., of one of our larger concerns. Mr. A. sent him to Mr. B., stating they had installed a new system with added departments and he now was a manager. B. sent him to C., who was the manager of the new department of estimating; C. put down the name on an estimate blank and it went to Mr. D., who filled in the estimate number and passed him along to Mr. E., who listed the material. Mr. F. figured the weights and then sent him to Mr. G., who priced the items and turned him over to Mr. H., who extended and added the amount, but before our superintendent was rewarded for his efforts he was sent back to Mr. D., who filled in the amount opposite the estimate number for record only. It was then ready for the manager, Mr. C., who quoted a price of $260. To follow all this excellent system required one hour and thirty-five minutes, when under the methods in vogue in the good old times the transaction would have been completed in five minutes at most.

There is another great indoor sport that has recently been added to the list of games of chance, namely, stealing men from each other. The great labor turnover is not caused entirely by the workmen. In fact, I think the employer is the greater transgressor, spending millions in advertising and in employing men, coaxing them away from their jobs. The low production of workers today is a direct result of this practice.

I do not blame the material men for the high prices of building materials. You have been the victims of circumstances—willing victims, perhaps, in some instances; and you have passed the excess costs along, adding on a little for yourselves in the process, but, on the whole, you were powerless to stem the tide. Everyone demanded material and, just as soon as they were told it was not available, they would bid up until someone would supply them. The owner demanded his building; we, in turn, demanded the material and secured the labor regardless of price, and work went forward under great hardship, conditions becoming progressively worse until some wise, level heads in the country decided a little breathing spell, giving us time in which to do some serious thinking, would do us all good.

A great many look for lower prices, but this is impossible when we consider the increases in freight, the higher wages, which will not recede to any great extent, and the new plane of living. The base prices will not go down and in some cases may be even higher. A new level of values has been established to stay, but the saving in ultimate cost, after eliminating the extravagant waste and bonuses by putting the industries of our country upon a peace-time basis, will be great—much larger than any of us realize. During the war it was necessary to do many things that increased cost in order to produce to the maximum. I have no criticism to offer for the actions of those in control. We had only one thought—to win the war; but we cannot and must not conduct our business in peace times on a war-time basis.

Unit of Production

Recently we have heard a great deal of talk about the amount of work done in an hour or a day, and it is a very lamentable fact that none of us is willing to put in as many hours of work, or work as hard during the time we are on the job, as was formerly the case. The owner, the manager, or the "boss," as he is often called, likes to swing into place one or two hours later in the morning and close his desk earlier than was his custom of old. Labor is not the only transgressor in this "less amount of production" era. My idea is that a new rule should be established—the "boss" on the job first and superintendents, department managers and other organization men ahead of the workmen. You do or should receive more money and society has a right to expect a greater service of you. If all employers do their part in a whole-hearted, conscientious manner they will remove one of the great obstacles in the way of the worker returning to the moral unit of production.

Closed Shop

The closed union shop must go. It is un-American, holds back the good man and does not make the poor, untrained, inefficient man better. I have no objection to a union if it will secure its membership without coercion, will not limit production and will subscribe to the open shop principle. There is at the present time a strong and growing discontent among themselves. They will not be shackled by the old principle of the strong shall carry the weak, the trained worker shall carry the inefficient, lazy fellow. In other words, workmen are soon going to demand pay based upon the amount of work they do. It is discouraging to note that the most trouble this year in our industry is with unions having one hundred per cent. organizations, with trade contracts agreeing to arbitrate all differences and guaranteeing continuous operation. It clearly demonstrates that labor leaders abuse the power conferred upon them by their organizations and that they will fight if more can be gained by force.

Confidence

I have put confidence last because we must master the others before a return of confidence can be expected. I refer to confidence in an immediate return to normal business. All of us have confidence in this great country of ours. If you are playing it short today, and continue to do so, you will lose, because we are too rich in natural resources, too rich in a great substantial people, too rich in a great government, and in social and educational institutions to ever be submerged or lose. Remember, play this for the biggest, greatest and grandest nation on earth and you will win joy, happiness, content, and your portion of the material rewards that go with it.

—Building Industry.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

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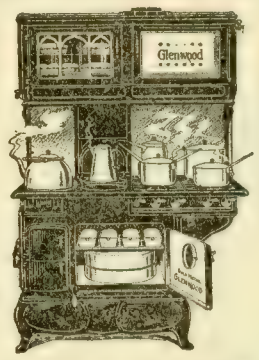
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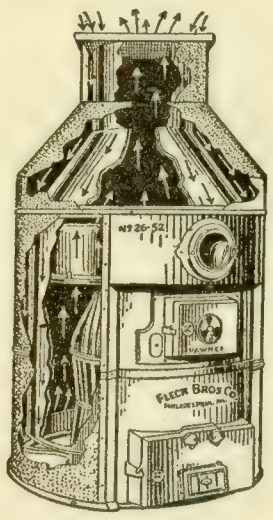


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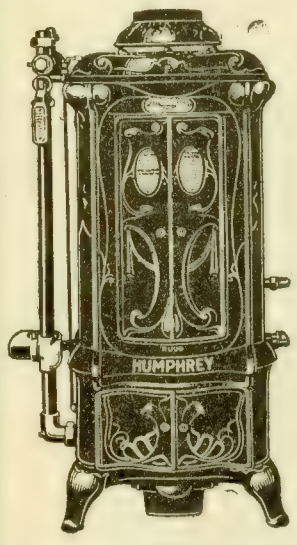


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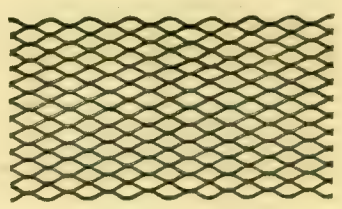
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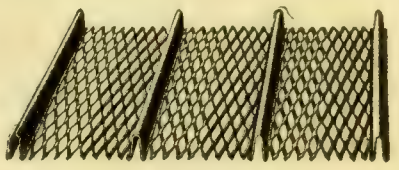
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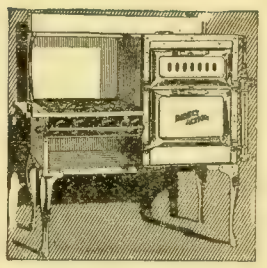


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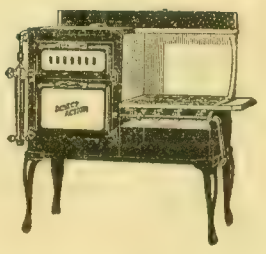
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October 27, 1920

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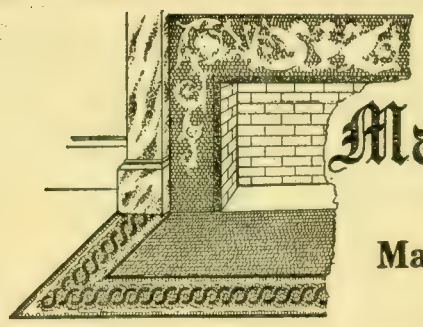
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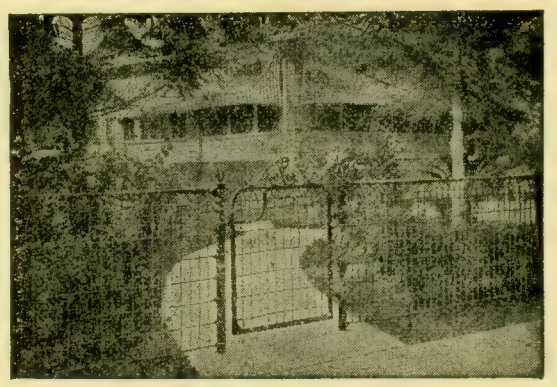
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 43

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As The Editor Sees It

LIME

Address to the Philadelphia Building Supply Association, Philadelphia, October 19, 1920 by Tyrrell B. Shertzer,, Construction Engineer Eastern Bureau of the National Lime Association.

Editor's Note—*The statements made in this address emphasize how little is known of the varied uses and the incomparable advantages of lime. The address is therefore especially timely in the face of the great building era approaching.*

Speed in construction is the watchword of the day; this tendency is justified to a greater or less degree by present conditions. The high cost and decreased efficiency of labor, the present increased cost of materials and high interest rates, all make it desirable to complete a structure at the earliest possible moment in order that the interest and carrying charges may be reduced to the minimum and the structure become revenue producing.

One of the very oldest, and seemingly well known, materials of construction, is lime. It is not possible to trace the oldest uses of lime, as the earliest relics of engineering and architectural structures in existence, contain lime in the form of mortar and plaster, which are of such a quality that they indicate a thorough understanding of this material such as could only have been obtained through many years of use.

Many very ancient ruins have been discovered in which the lime mortars and plasters have resisted the ravages of time during the intervening ages, better than have the structural materials to which they were applied. One example can be cited in the case of the ruins of Pompeii, which was destroyed in A. D. 63, and was known to be a flourishing city in 79 B. C. Excavation of this old city is bringing to light remarkable stucco and fresco work; in several cases it has been found possible to remove great slabs of the plaster and stucco from the structures to which they were applied and transport them great distances for exhibition in museums. These frescoes and stuccoes are described as being rather gaudy, which bears additional testimony to the wonderful preservative and lasting quality of lime plaster, since, were it not a permenant material, the colorings and details would never have been preserved.

Many examples of the wonderful plaster and stucco prepared by the ancient Greeks and Romans in other places, have come down to us in perfect condition.

We can follow the use of lime through the middle ages, citing the fact that the remarkable works of the masters of the brush of that period have been preserved and handed down to us as a result of having been painted directly upon lime plaster. We are, however, chiefly interested in the practical aspects of the use of lime and its present day application and possibilities, so that we will dwell no longer in the past.

While I know that you are all interested in this subject from the construction point of view, I cannot resist the temptation to call your attention to the fact that lime is one of the most widely used materials on earth and that in some form it enters into the manufacture, preparation or growth of practically everything we have, use or wear. For instance, were it not for the lime content of the soil, we would have no healthy plant growth, without lime to act as a flux, we would have no steel nor iron, lime is used to prepare our granulated sugar, and so I might go on and enumerate the considerably more than two hundred separate and distinct uses of lime. Lime

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is the chief constituent of bone, without it our skeleton would lack the strength required of it, every human being carries several pounds of lime around in his physical structure. Man should certainly not presume to set his opinions up against those of the Creator, and since the Creator has seen fit to use lime so freely in the construction of his noblest work, namely, man, as well as in his lesser works, mankind can hardly go far astray if they follow this example.

Let us, for a moment, consider the first use to which buildings were put, which use continues to be the most important one even to this day, namely, the construction of the home. A man builds a home primarily for privacy, using the word in its broad sense. This privacy means personal seclusion as well as isolation from other groups or families of people. Individual members of a household are entitled to the privilege of isolating themselves from the other members and to be free from annoyance of hearing diverting or annoying sounds and noises, by having these noises conveyed from room to room by resilient, noise transmitting materials of construction. The home owner is entitled to honest value for the money he invests and to such construction and materials as will assure him of continuous, peaceful occupancy. There is no single item entering into the construction of a home which is as much in evidence, can contribute more to the enjoyment of the home and to which, as a general rule, less consideration is given, than the plastering. Aside from foundation or extensive structural failure, there is nothing which will cause a greater menace to life and limb, or more inconvenience and unhappiness than will a plaster failure. It is true that in dollars and cents the value or cause of the plaster in the average home is a small item, but expressed in terms of comfort, happiness and contentment, its value far exceeds that of any other single item. Mention has been made of the fact that certain structural materials are resilient and sound carrying. This is particularly true of certain classes of plastering materials. Lime plaster, on the other hand, is decidedly sound deadening, the reason for its possessing this property are too technical to go into here in detail.

While the home is built primarily for comfort and enjoyment, the home owner is entitled to the maximum amount of construction for the minimum expenditure consistent with good practice. It has truly been said that "Comparisons are odious" but it is necessary to resort to comparisons sometimes in order to clearly demonstrate a point in question. We are now up against such a proposition, and I am going to make a few comparisons. Plastering work which is entitled to consideration should properly be either two or three coat work, preferably, three coat. A properly slaked lime will carry from three to four parts of sand for the first or scratch coat, and from three to six parts of sand for the second or brown coat. It is as a rule safe to figure on using from ten to twelve bushels of lime and about two tons of sand, for 100 square yards of plaster on seven-eights of an inch grounds. One of the most widely used substitutes for lime in plastering, requires about one ton of neat materials and from 2¼ to 2½ tons of sand to do the same amount of work. It is self evident, which of the two materials is the more economical, considering the sand carrying capacity alone. Lime plaster is much more plastic than its substitutes, so that it is easily possible for an operator to apply about 20% more plaster when made of lime. If the floors are kept broom clean, lime plaster droppings can be taken up, reworked and put on the wall. This is impossible with the substitutes—with them the droppings are not only lost but there is an additional expense in cleaning them up and carting them to the dump. Lime plaster remains plastic and workable for a much longer time than do the substitutes, so that the operator has ample time in which to true and line up his work. There is another great advantage which lime posseses over it's substitutes. Lime mortar is a first class material with which to lay up structural units such as bricks, blocks, etc. One lot of lime can be slaked and aged and the resulting paste used for both mortar and plaster by modifying and altering the sand content only.

It may seem queer that I should appear before a gathering of this kind and present arguments and reasons why a material should be advocated, when the arguments and facts presented show conclusively, for a given piece of work, less of this material is required, and the general cost of the work is less. I submit that these very arguments make for good business practice. For the sake of argument, let us assume that a house of a certain design and of certain materials may be built at the present time for $1,250. Now suppose that by substituting certain other materials of well proven stability and reliability, the cost of a house built according to the same plans can be reduced to $1,000 or 20% less than house number one. Again let us assume that the labor in both houses cost the same percentage of the total cost and assume this as being 50% thus leaving 50% as the cost of the materials, assuming some more, let us say that the Materials Dealer clears 15% net. On house number one he clears $93.75 and on number two $75.00 or 20% less net. This means that he will make exactly the same total profit on four of the number one houses or five of the number two houses. Now let us imagine two adjacent suburban developments. Promoter A builds eight houses according to scheme number one, promoter B builds ten according to scheme number two. The advantages of both developments are identical but promoter B can offer his houses at twenty per cent. less than

(Continued on page 903)

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Lumber Storehouse, Building No. 250, Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, care of Const. Officer, Major J. Lumsden, Frankford Arsenal. Brick and steel, 1 story, 242x80 feet, built-up roof, cement floors, stone foundations, Bond, iron work. Owners taking bids due November 2. M. Melody & Son, 1322 Race street; Hughes-Foulkrod Co., Commonwealth Building; Ketcham & McQuade, 1029 Brown street; Monaghan & Lossee, Inc., 3016 Chestnut street; Thomas Reilly, 1616 Thompson street; W. W. Anstine & Co., 1218 Filbert street; William R. Dougherty, 1610 Sansom street; F. A. Havens Co., 845 North Nineteenth street; Robbins Cont. Co., 1137 North Front street; H. John Homan, 34 South Seventeenth street; Pierce-Henon, Inc., Bulletin Building; F. A. Foster Co., 43 South Seventeenth street, are figuring. Revised bids.

Fire Escape, 2100 Chestnut street, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, name withheld. Brick work, painting, tin roof, iron fire escape, plastering. Architects have received **bids.**

Store and Dwelling (alts. and add.), 270 South Fifty-second street. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Louis Hultzman, 258 South Fifty-second street, Philadelphia. Brick, 3 stories, add. 3 stories, 20x16 feet, slag roof, hardwood floors, metal lath, plastering, hollow metal skylights, tile work, electric lighting, hot water heating. Owner is taking bids due November 1st. J. D. Fisher, 5424 Thompson street; J. H. Feeser, 5018 Locust street; Abraham Kirpichnikoff, Fifth and Tasker streets, and Louis Swerdloff, 228 South Fifty-ninth street, are figuring.

Store Building (alts. and add.), Twelfth and Walnut streets, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, George Kelly Department Store, care of Continental Equitable Title & Trust Co., Trustees, Twelfth and Chestnut streets, Philadelphia. Brick work, sheet iron, metal doors and sash, carpentry and mill work, terrazzo work, plumbing, glazing, plastering, metal lath. Architect taking bids due November 1st. F. B. Davis & Son, 240 North Sixteenth street; William R. Dougherty, 1610 Sansom street; Ketcham & McQuade, 1029 Brown street; Frank E. Wallace, 1220 Chancellor street; John McShain, 1610 North street; Muller & O'Rourke, 609 South Twenty-sixth street, are figuring.

Hotel (alts.), 1222-2426 Locust street, Philadelphia. Architects, Magaziner & Eberhard. 603 Chestnut street, Philadelphia. Owner, Y. W. C. A., Eighteenth and Arch streets, Philadelphia. Carpentry, mill work, metal lath, plastering, steel work, painting, glazing. Architects have received bids.

Ice Plant and Storage Building, Tenth and Callowhill streets, Philadelphia. Architect, C. Leslie Weir, Longacre Building, New York City. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick and steel, 2 stories, 198x77 feet and 54x110 feet, slag roof, concrete and pine floors, waterproofing, iron work, iron stairs, Bond, fire doors, rolled steel sash, tile work, stone foundations.. Architect taking bids due November 1st. Cramp & Co., Denckla Building; Monaghan & Losse, Inc., 3016 Chestnut street; Warren-Moore Co., Colonial Trust Building; Irwin & Leighton, 126 North Twelfth street; Henry E. Baton, 1713 Sansom street; John N. Gill & Co., Otis Building; Robt. E. Lamb Co., 843 North Nineteenth street, are figuring.

Marine Hospital (add.), Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick, 1 story, 20x41 feet, stone foundations, hot water heating, electric lighting, composition roof, pine floors, metal lath, dampproofing. Alternate for 2 story building. Owners taking bids due November 15th. Kober Const. Co., 34 South Seventeenth street, and F. A. Foster Co., 43 South Seventeenth street; George H. Evans, 45 North Thirteenth street, are figuring.

Residence, Southwest Corner A and Allegheny avenue, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Dr. A. F. Copeland, 158 East Allegheny avenue, Philadelphia. Brick, 3 stories and basement, 15½x55 feet, slag roof, hardwood floors, stone foundations, steam heating, electric lighting, tile and marble work, hollow metal cornice, porch enclosure. Architects are taking sub-bids on all lines.

Stables (alts.), Eleventh and Wharton streets, Philadelphia. Architect, John P. B. Sinkler, 826 City Hall, Philadelphia. Owner, City of Philadelphia, Department of Public Safety, City Hall. New cork brick floor, mill work, carpentry. Architect taking bids due October 28th. F. A. Foster Co., 43 South Seventeenth street; Mitchell Bros., 2125 Race street; Monaghan & Losse, Inc., 3016 Chestnut street; E. C. Durell, 1713 North Twenty-fourth street; Albert Zellfelder, 151 South Broad street; George H. Evans, Inc., 45 North Thirteenth street; George Dobbins, 4615 Springfield avenue; Robbins Cont. Co., 1137 North Front street; T. J. & J. R. Whelan, 1011 Chestnut street; C. Day, 3503 Decatur street; J. H. Jordan, Thirty-first and Oxford streets, and Robert E. Lamb Co., 843 North Nineteenth street; Pierce-Henon, Inc., Bulletin Building, are figuring.

Offices (add.), 130 East Duval street, Philadelphia, $10,000. Architect, Charles D. Bowdikel, Erdenheim, Pa. Owners, Philadelphia Toboggan Co., on premises. Brick and steel, 2 stories, 62x50 feet, slag roof, steam heating, electric lighting, pine floors. Owners will build.

Stores (2) and Apartments (2) (alts.), Watts and Venango streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Fred J. Schaeffer, care of architects. Brick, 2 and 3 stories, general interior alterations and new front, flush bulks, plate glass, tile work, electric lighting, hot water heating, hardwood floors, new partitions. Architects are taking sub-bids.

Shop, League street, West of Twenty-second street, Philadelphia, $6,000. Architect, private plans. Owner, Belmont Iron Works, Twenty-second and Washington avenue, Philadelphia. Brick and steel, 1 story, 43x65 feet, slag roof, steel sash. Owners will build.

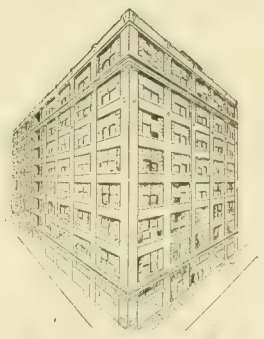
Tenement House (add.), 1114 Spruce street, Philadelphia, $10,000. Architect, Carl P. Berger, South Penn Square Building, Philadelphia. Owner, Price Const. Co., 914 South Penn Square Building, Philadelphia. Brick, 4 stories, 25x84 feet, slag roof, steam heat, electric light, pine floors. Owners will build.

Residence (alts.) to Apartments, 2015 North Park avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, general remodeling for apartments. Plans in progress. Too early for details.

Residence and Garage, Sixty-sixth and City Line, Overbrook, Philadelphia, $50,000. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, Fred L. Harding, 6342 Drexel Road, Philadelphia. Stone, 2½ stories, stone foundations, steam heating, electric lighting, tile and marble work, hardwood floors, metal weather strips. Plans in progress. Too early for details.

Bank (alts. and add.), Torresdale avenue and Longshore street, Tacony, Philadelphia.

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Architect, Conrad F. Neff, Otis Building, Philadelphia. Owner, Northeast Tacony Bank, on premises. Indiana limestone, 2 stories, 73x35x25 feet, slag roof, steam heating, electric lighting, composition floors, ornamental iron work. Louis Dietrick, 3016 Comly street, will build.

Waterview Recreation Centre Annex, Germantown, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Recreation, 595 City Hall, Philadelphia. New sleepers and floors. Owners taking bids due November 1st at noon.

Rectory (alts. and add.), Northeast Corner Mascher and Master streets. Architect, P. F. Getz, 1634 North Sixth street, Philadelphia. Owner, Sacred Heart Roman Catholic Church, care of F. Neurihrer, on premises. Third floor addition, 39x16 feet, slag roof, pine floors, Bond, iron work (plumbing, heating and electric work reserved). Architect taking bids due November 1st. J. C. Mahoney, Drexel Hill, Pa.; William R. Dougherty, 1610 Sansom street; D. W. O'Dea, 5227 North Fifth street, and J. D. Fisher, 5424 Thompson street, are figuring.

Store and Apartments (alts. and add.), Northeast Corner Randolph street and Girard avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Dr. I. H. Greenfield, care of architects. General alterations, carpentry, mill work, electric lighting, plumbing, plastering, painting, glazing, flush bulks. Architects will be ready for bids in three weeks.

Building, 328-30 Noble street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Keystone Table Mfg. Co., on premises. Brick and steel, 2 stories and basement, 111x38x21 feet, slag roof, pine floors, electric lighting, elevator. Architect is ready for bids.

Building (alts.), Northeast Corner Broad and Locust streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, name withheld. General refinishing of building, interior and exterior alts. Plans in progress. Ready for bids in a week.

Office Building (alts.), Thirteenth street, between Commerce and Filbert streets. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Filbert Realty Co., 723 Walnut street, Philadelphia. Brick and steel, 4 stories, 106x70 feet, slag roof, maple floors, stone foundations, electric lighting, tile, marble and terrazzo work, metal lath, elevators, hollow metal skylights, fire doors, iron work. Architect taking bids. Pierce Henon, Inc., Bulletin Building, is figuring.

Market House (alts.), Twentieth and Oxford streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, J. C. Kahn, Morris Building, Philadelphia. Stone foundations, new brick walls. Architect has received bids.

Bridge, State road and Rhawn street, Holmesburg, Philadelphia. Architect, John P. B. Sinkler, City Architect, 826 City Hall, Philadelphia. Owners, Home of Indigent, Holmesburg, Philadelphia. Siding steel, 97 feet long, 8 feet wide, slate roof, composition floors, hollow tile, metal lath, safety treads, metal weather strips, iron work, Bond, marble work, concrete foundations, hollow metal doors. Architect taking bids due October 28th. George H. Evans, Inc., 45 North Thirteenth street; M. & J. B. McHugh, 892 North Markoe street; Robbins Cont. Co., 1137 North Front street; T. J. & J. R. Whelan, 1011 Chestnut street; F. A. Foster Co., 43 South Seventeenth street; Mitchell Bros., 2125 Race street; C. Day, 3503 Decatur street, Holmesburg; E. C. Durell, 1713 North Twenty-fourth street; J. H. Jordan, Thirty-first and Oxford streets; Robert E. Lamb Co., 843 North Nineteenth street; Frank G. Stewart, 1619 Sansom street; Monaghan & Losse, Inc., 3016 Chestnut street; Albert Zellfelder, 151 South Broad street, and George Dobbin, 4615 Springfield avenue; Pierce, Henon, Inc., Bulletin Building, are figuring.

Warehouse, Sixteenth and Parrish streets, Philadelphia. Architect, private plans. Owner, name withheld. Reinforced concrete, steel, slow burning construction, 4 stories, 32x160 feet, slag roof, concrete and pine floors, elevators, fire doors, rolled steel sash, steam heating, electric lighting. Lam Building Co., 1001 Wood street, are taking sub-bids.

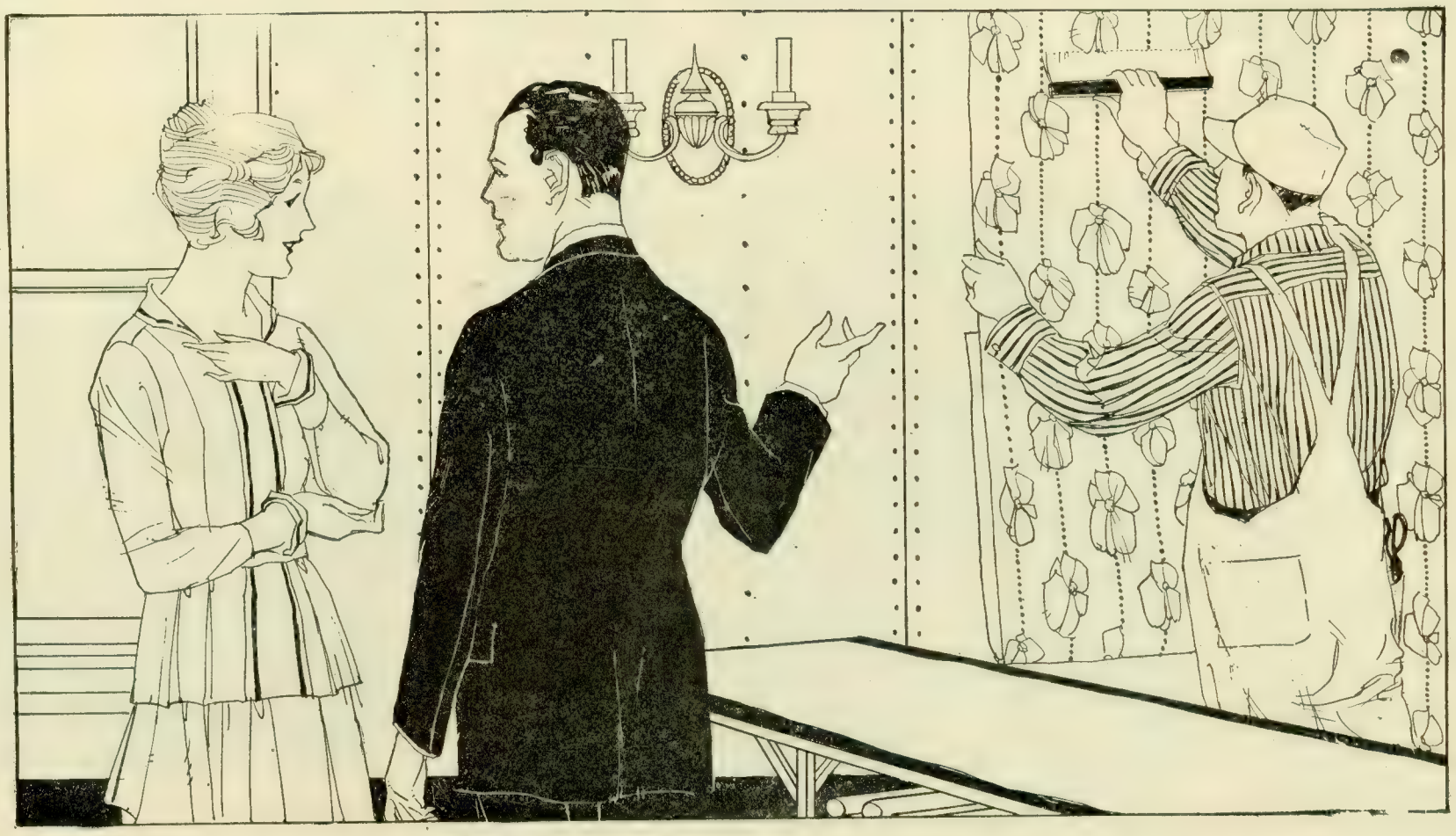
Manufacturing Building (add.), Tabor avenue and Perry street, Philadelphia. Architect, private plans. Owners, F. J. Stokes Machine Co., on premises. Brick, concrete and steel, 1 story, 140x91 feet, slag roof, concrete and pine floors, hollow tile, metal lath, fire doors, rolled steel sash, electric lighting, concrete foundations. Owners have received bids.

Garage, 705-11 Tasker street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, A. Pesteoe, 1625 South Eighth street, Philadelphia. Brick, 2 stories, 52x121 feet, slag roof, cement floors, steam heat, electric lighting, rolled steel sash. Revised plans in progress.

Ice Plant and Storage Building, Tenth and Callowhill streets, Philadelphia. Architect, C. Leslie Weir, Longacre Building, New York City. Owners, American Ice Co., Sixth and

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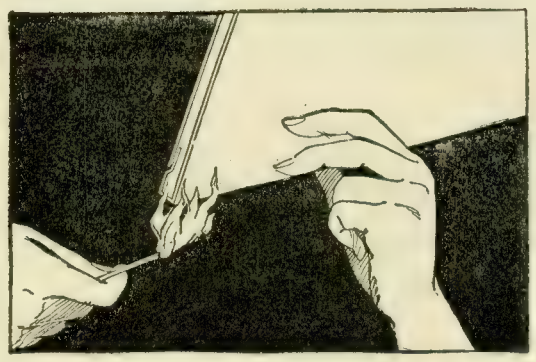
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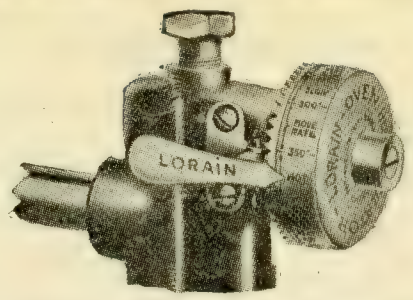
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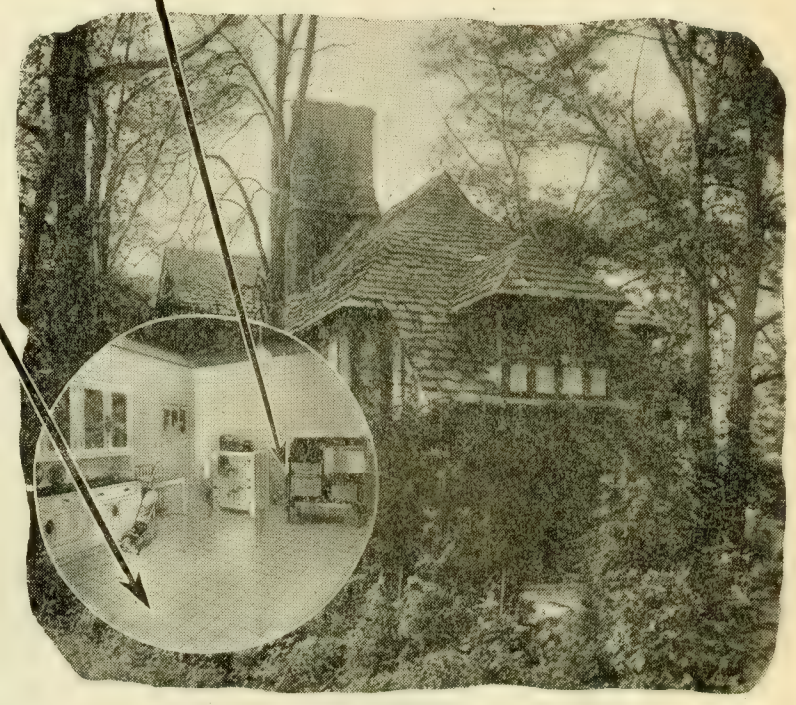
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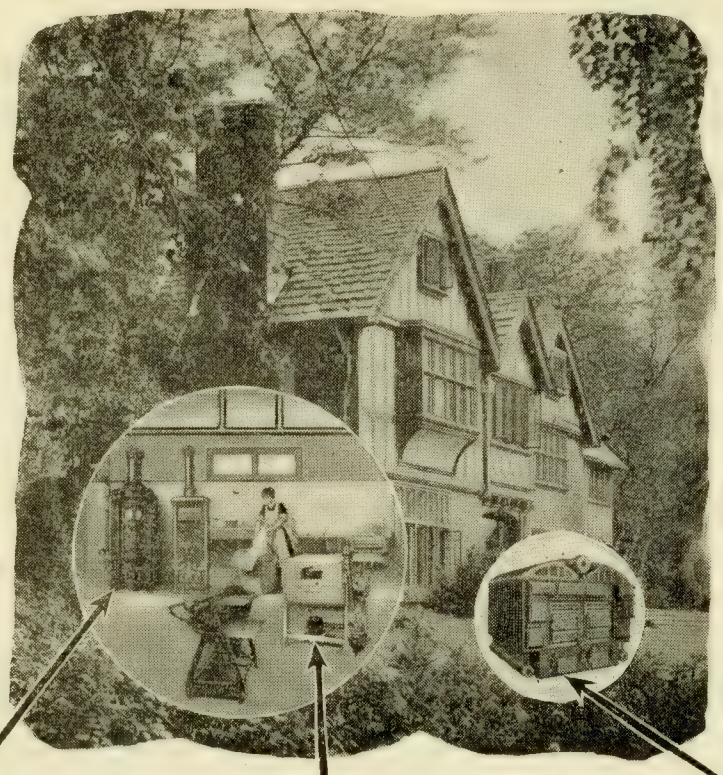


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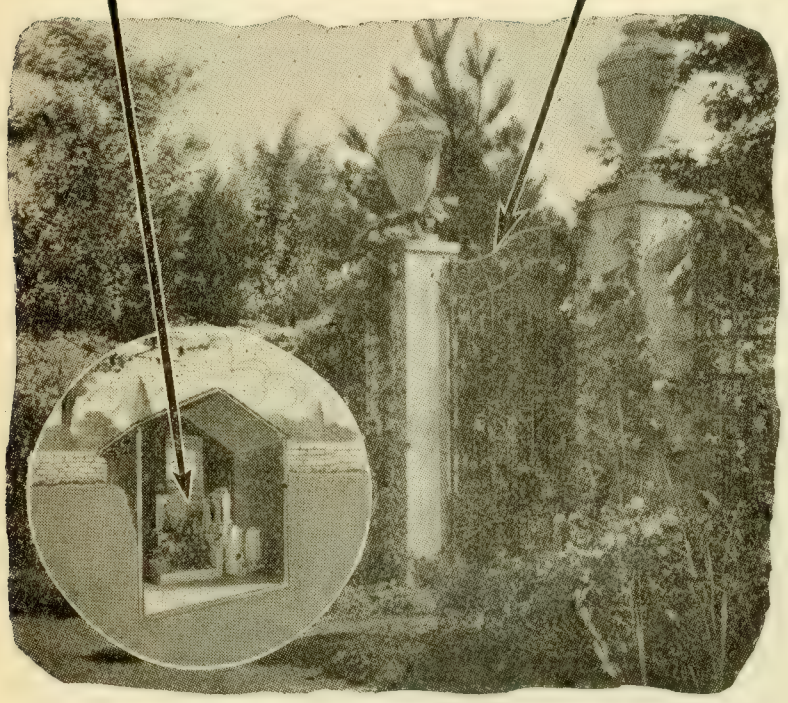
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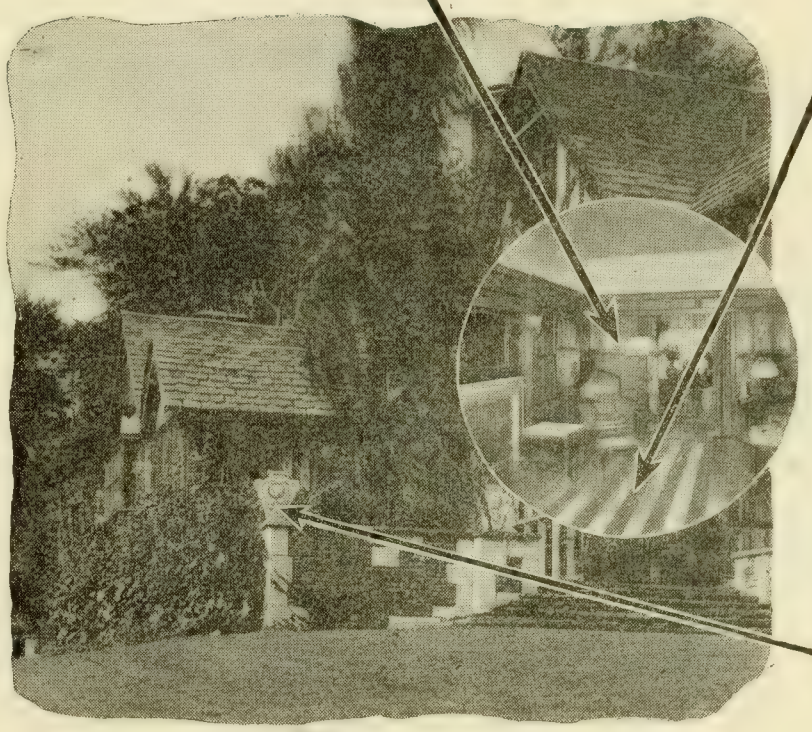
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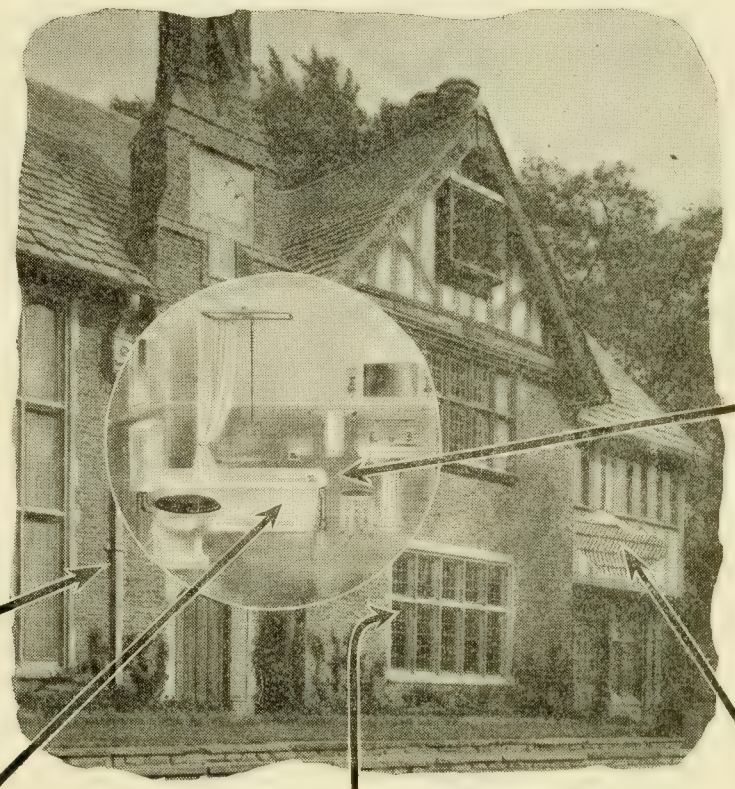
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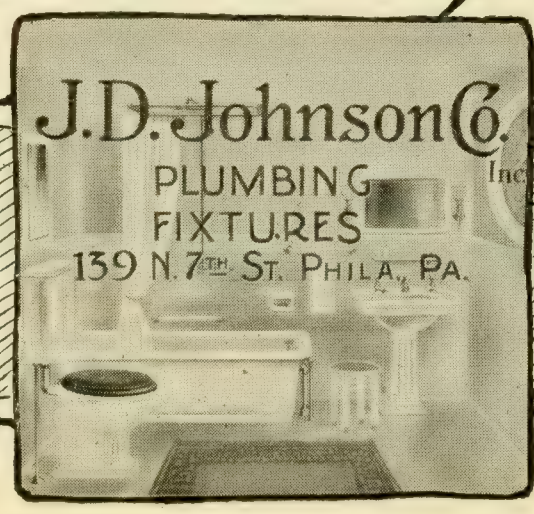


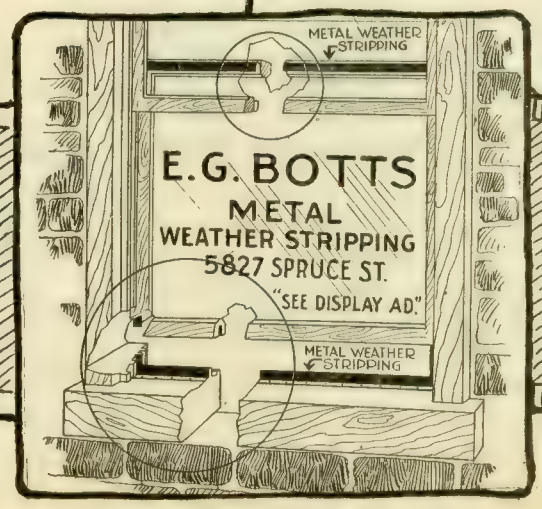


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Arch streets, Philadelphia. Architect taking bids, due November 1st. Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia, additional bidders.

Marine Hospital (add.), 410 Chestnut street, Philadelphia. Architect, Jas, A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Owners taking bids, due November 15th. Geo. H. Evans Co., 45 North Thirteenth street, Philadelphia, additional bidder.

Church and Sunday School, Fifty-sixth and Willows avenue, Philadelphia. Architect, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Sherwood United Presbyterian Church, care of Robert Jensen, 5714 Hatfield avenue. Architects and owners taking bids, due October 28th. F. A. Havens Co., 845 North Nineteenth street, additional bidders.

Stables (alts.), Eleventh and Wharton streets, Philadelphia. Architect, John P. B. Sinkler, 826 City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, City Hall. Architect taking bids, due October 28th. Pierce-Henon, Inc., Bulletin Building, Philadelphia, additional bidders.

Bridge, State Road and Rhawn street, Holmesburg, Philadelphia. Architect, John P. B. Sinkler, City Architect, 826 City Hall, Philadelphia. Owners, Home for Indigent, Holmesburg, Philadelphia. Owners taking bids, due October 28th. Pierce-Henon, Inc., Bulletin Building, Philadelphia, additional bidders.

Building (alts.), 202-04 North Broad st., Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, General Realty Co., Stock Exchange Building, Philadelphia. Brick, 2 stories, general interior alterations, new partitions, pine floors, brick work, carpentry. Plans in progress.

Bank Building, 3116 Market street, Philadelphia. Architects, Pollock & Rust, 1802 Chestnut street, Philadelphia. Owners, Drovers and Merchants' Bank, care of Frank P. Hill, West Philadelphia Stock Yard, Philadelphia. Architects selected. Preliminary sketches in progress. Too early for details.

Building (alts.), 232 South Front street, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, Gibson Distilling Co., on premises. New brick wall, steel work, metal lath, plastering, pine floors, tinclad doors, marble and tile work, oak floors, metal doors and windows, roof repairs, iron work (plumbing, heating and electric work reserved). Architects taking bids. Edw. Fay & Son, 2 South Mile street; Conneen Const. Co., 10 South Eighteenth street, and Keefer & Son, 1321 Rodman st., are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Warehouse, Columbia avenue, East of Beach street, Philadelphia, $55,000. Architect, private plans. Owner, Columbia Avenue Pier Co., on premises. Brick and steel, 1 story, 120x115 feet, galvanized roof, electric lighting, cement floors, steel sash, cranes. Con-

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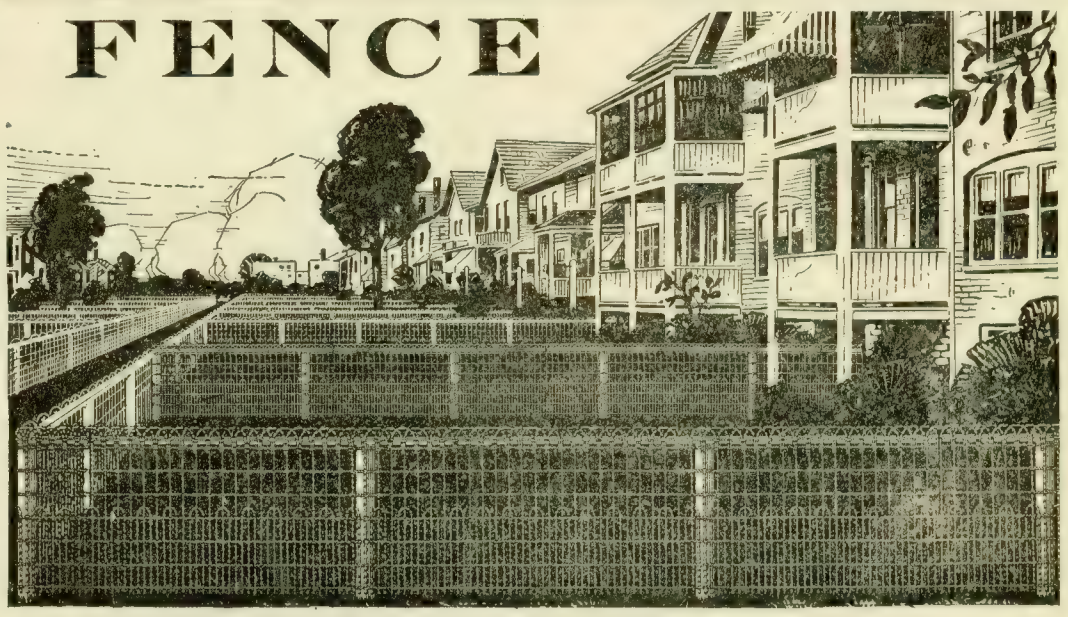
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tract awarded to George Kessler Cont. Co., Drexel Building, Philadelphia.

Store Building (alts. and add.), 238 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Good & Friedman, care of Albert M. Greenfield, Morris Building. Bulk windows, plastering, carpentry, mill work, marble work, tile floors, oak floors. Contract awarded to George H. Evans, 45 North Thirteenth street, Philadelphia.

Residence (add.), 2204 Delancey street, Philadelphia, $3,000. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Dr. Maurice Ostheimer, on premises. Brick, 2 stories, 12x14 feet, canvas roof, hot water heating, electric lighting, tile work. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Residence and Garage, Ardleigh and Durham streets, Philadelphia, $18,500. Architect, private plans. Owners, Sedgwick Farms Co., 7014 Boyer street, Germantown. Stone, 3 stories, 28½x54 feet, and 2 stories, 19x20 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work, cement work. Contract awarded to A. S. Tourison, 7014 Boyer street, Philadelphia.

Residence (alts. and add.), 3730 Germantown avenue, Philadelphia, $3,000. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, J. S. Berkelbach, on premises. Brick, 1 story, 16x25 feet, slag roof, oak floors, hot water heat, electric light, stone foundations, iron work. Contract awarded to Henry P. Schneider, 3713 Old York road, Philadelphia.

Hotel (alts.), Southwest Corner Camac and Locust streets, Philadelphia, $2,500. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Y. W. C. A., Eighteenth and Arch streets, Philadelphia. Carpentry, mill work, painting, glazing, plastering. Contract awarded to Frank E. Wallace, 1220 Chancellor street, Philadelphia.

Church, Fifty-fourth and Springfield avenue, Philadelphia, $20,000. Architect, George C. Baum, 1409 Arch street, Philadelphia. Owner, Luther Memorial Evang. Lutheran Church, care of Rev. C. E. Hays, 1347 South Fifty-fourth street, Philadelphia. Stone, 1 story and basement, 79x53 feet, slag roof, pine floors, stone foundations, electric lighting. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

Store (alts.), Southeast Corner Thirteenth and Filbert streets, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owners, William Hopkins Co., on premises. Carpentry, plastering, bulks, glazing, painting, tile work, steel work, marble work (heating, electric lighting and plumbing reserved). Contract awarded to Girard Realty & Cont. Co., 3220 Columbia avenue.

Pits and Equipment, Tulip street Engine Yard, Richmond Division, P. & R. R. R., Philadelphia. Architect, private plans. Owners, P. & R. R. R. Co., Reading Terminal, Philadelphia. Concrete and steel, (2) submerged ash pits, (1) inspection pit, water supply and fire protection. Contract awarded to C. P. Bower, Tulip and Somerset streets, Philadelphia.

Store and Dwelling (alts. and add.), 6199 Ridge avenue, Philadelphia, $8,000. Archi-

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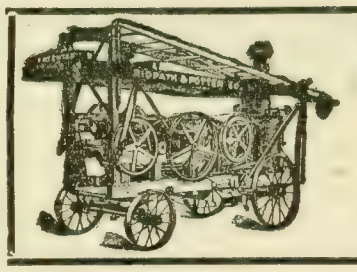
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tect, private plans. Owner, J. R. Wilson & Co., 929 North Broad street, Philadelphia. Brick, 1 story, 25x5 feet, 5x26 feet and 8x24 feet, slag roof. Contract awarded to Cook & Gough, 57 Wood street, Camden, N. J.

Residence (alts. and add.) to Store and Storehouse, 3224 Woodland avenue, Philadelphia, $9,500. Architect, private plans. Owner, T. Charles Dusenberg, 282 South Fifty-second street, Philadelphia. Brick and steel, 2 stories, 20½x43 feet and 7x14 feet, slag roof, steam heating, electric lighting, pine floors, iron work. Contract awarded to Frank W. Allison, 265 South Twentieth street, Philadelphia.

Garage (add.), Southeast Corner Pratt and Salmond streets, Philadelphia, $3,500. Architect, private plans. Owner, William Cragg, 2690 Bridge street, Philadelphia. Frame, 1 story, 15x40 feet, slag roof, cement floor, electric light. Contract awarded to Lewis Ulmer, 2225 Howarth street, Philadelphia.

Building (alts.), 1309 Locust street, Philadelphia. Architect, C. A. Ziegler, Bailey Building, Philadelphia. Owner, name withheld. General remodeling, new heating and electric work. Plans in progress. William S. Hillsley, 1813 Sansom street, will build.

Residence, Walker and Benner streets, Philadelphia, $4,000. Architect, private plans. Owner, George E. Smith, 3135 Benner street, Philadelphia. Frame, 1 story, 24x32 feet, electric lighting, pine floors. Contract awarded to George W. Roberts, 3135 Benner street, Philadelphia.

Auto Service Building, 238-40-42 North Sixty-third street, Philadelphia, $32,000. Architect, private plans. Owner, John M. Kennedy, Jr., 410 South Van Pelt street, Philadelphia. Brick, 1 story, 50x124 feet, slag roof, cement floor, steam heating, electric lighting, rolling steel doors. Contract awarded to Jas. Oliver, 5448 Filbert street, Philadelphia.

Building (alts.), southeast corner of Tenth and Reed streets, Philadelphia, $5,000. Architect, private plans. Owners, General Baking Co., 45 East Seventeenth street, New York City. General alterations. Contract awarded to Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia.

Refrigerating Plant and Office (add.), Fifty-sixth and Arch streets, $4,000. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Brick, 1 story, 17x40 feet, slag roof, concrete and pine floors, stone foundations, waterproofing, painting, plumbing, carpentry, millwork. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Store and Residence (alts.), 4337 Baltimore avenue, Philadelphia.. Architect, private plans. Owner, E. Conner, on premises. Mill work, hardwood floors, tile work, electric work, plastering, stairway, painting. Contract awarded to PierceHenon, Inc., Bulletin Building, Philadelphia.

Store Building (add.), 40 North Front street, Philadelphia. Architect, private plans. Owners, Rohm & Hass, on premises. Brick, 1 story, 16x12 feet, slag roof, pine floors, stone foundations, electric lighting, iron work. Contract awarded to George H. Evans Co., 45 North Thirteenth street, Philadelphia.

Store and Storage (alts.), 1108 Sansom st., Philadelphia, $2,000. Architect, private plans. Owner, Chas. Soulas, 1013 South Forty-sixth street, Philadelphia. Brick, 1 story, 10x7 feet, slag roof, pine floors. Contract awarded to H. M. Irwin, 1613 Ranstead street, Philadelphia.

Residence (alts. and add.), 1912 Venango street, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Dr. U. Phillips, on premises. Brick, 2 stories, 15x20 feet, slag roof, hardwood floors, hot water heating, electric lighting, plumbing. Contract awarded to T. Wilkinson, 3639 North Ninth street, Philadelphia.

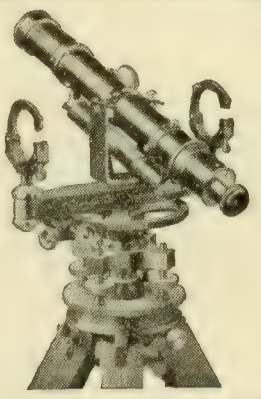
PENNSYLVANIA Construction News

Cow Stable and Chicken House and Garage (alts. and add.), Ardmore, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, name withheld. Frame, 1½ story, 80x15 feet, shingle roof, cork, cement and pine floors, iron work, electric lighting, stone foundations. Garage, 1 story, stone, 20x29 feet, slag roof, cement floors, metal lath, stone foundations, electric lighting, ornamental iron work, cement floors, carpentry, mill work, plumbing, tin roof, plastering, painting and glazing. Architect has received bids .

Municipal Building (alts. and add.), Milton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Borough of Milton, Milton, Pa. General remodeling of building. Plans in progress.

Club House (alts. and add.), Milton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, B. P. O. E., Milton, Pa. Plans in progress. Too early for detail.

Stores and Apartments, City Line and Forty-fifth street, Bala, Pa. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia.



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Owner, name withheld. Brick and stone, 3 stories and basement, 55x60 feet, slag roof, pine floors, metal lath, flush bulks, iron work, plumbing, tile work, electric lighting, hot water heating, mill work. Architect is taking subbids on all lines.

Masonic Temple, Main and Grove streets, Lock Haven, Pa., $1,000,000. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, Masonic Temple Association, care of J. R. Stevenson, Lock Haven, Pa. Stone, terra cotta and steel. Preliminary plans in progress.

Schools (2), Bethlehem, Pa., and West Bethlehem, Pa. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, Bethlehem School District, care of E. Speck, President, Broodhead street and Packer avenue, Bethlehem, Pa. Brick, steel and concrete, slag roof, steam heating, electric light. Architects are ready for bids.

Tenant House (alts. and add.), Camp Hill, Pa. Architects, De Armond, Ashmead and Bicklev, Franklin Trust Building, Philadelphia. Owner, Mrs. Richard W. Cadwallader, Camp Hill, Pa. Frame and stucco, general alterations and additions, new bathroom, dog kennels, raising roof, new water supply system, hot air heating, electric lighting. Architects are taking sub-bids.

Residence and Garage, Merion, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, John R. Scott, Merion, Pa. Stone and frame, 2½ stories, 38x40 feet and 22x30 feet, slate roof, hardwood and cement floor, stone foundations, hot water heating, electric lighting, tile work. Owner and architects are taking sub-bids.

Residence, Milton, Pa. Architect, George S. Idoll, 1705 Chestnut street, Philadelphia. Owner, M. A. Fulmer, Milton, Pa. Brick, 2 stories, 25x25 feet. Plans in progress. Too early for details.

School Building, Chambersburg, Pa. Architect, H. G. Kilmer, Chambersburg, Pa. Owners, Chambersburg School Board, care of F. S. Gill, Penn Hall School, Chambersburg, Pa. Brick and stone, 2 stories, slag roof, pine floors, steam heating, electric lighting, plumbing. Revised plans in progress.

Pennsylvania Contracts Awarded

Residence (alts.), Wynnewood, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, T. Leaming Smith, 309 South Hicks street, Philadelphia. General alterations, new bath, hot water heating, hardwood floors. Contract awarded to Charles C. Pace, Merion, Pa.

Garage, Bala, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, Louis Werlin, Bala, Pa. Stone, 1½ stories, 20x20 feet, shingle roof, cement and pine floors (heating, electric lighting and plumbing reserved). Contract awarded to John E. Kearney, 34 South Seventeenth street, Philadelphia.

Church (alts. and add.) and Sunday School, Ashbourne, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Ashbourne Presbyterian Church, care of Rev. R. Montgomery, premises. Stone and 2 and 3 stories, 50x60 feet, and 1 story, 20x40 feet, slate roof, pine floors, steam and hot water heating, electric lighting, tile work, waterproofing, iron work, Bond. Contract awarded to E. Allen Reeves, Abington, Pa.

Central Office Building, Altoona, Pa. Architect, private plans. Owners, Bell Telephone Co. of America, Seventeenth and Arch streets, Philadelphia. General alterations and additions. Contract awarded to J. B. Fluke & Son, Altoona, Pa.

New Jersey Construction News

High School, Atlantic City, N. J., $1,000,000. Architect, not yet selected. Owners, Atlantic City School Board, care of Mr. Bower, Ohio and Pacific avenues, Atlantic City, N. J. Work contemplated.

Fire House and Tower, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, City of Atlantic City, care of Dr. J. B. Thompson, Atlantic City. Brick and concrete, 4 stories, 55x100 feet, concrete roof and floors, electric lighting. Architect taking bids.

Service Station and Garage, Pleasantville, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, Edw. Burk, Main street, Pleasantville, N. J. Brick, concrete, 1 and 2 stories, 166x77 feet, concrete foundations, slag roof, concrete floors, steam heat, electric light, hollow metal skylights, roof ventilators, plate glass. Owner will sublet.

Garage, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, Carl Brown, Capitol Garage, Atlantic City, N. J. Brick, 1 story, 75x200 feet, concrete foundations and floors, composition roof, electric lighting, gasoline storage system. Owner taking sub-bids.

Country Club, Haddonfield, N. J. Architect, not yet selected. Owner, Haddonfield Country Club, George H. Hall, secretary, Camden. Brick, 3 stories and basement, hardwood floors, tile work, metal lath. Competitive plans being submitted by B. H. Lackey, 509 Federal street, Camden, N. J.; Charles H. Peddle, 136 South Fourth street, and W. W. Sharpley, 1713 Sansom street, both of Philadelphia.

Club and Lodge, location withheld. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, name withheld. Brick, steel, 45x100 feet, concrete foundations, slag roof, hardwood floors, electric light, tile and marble work, metal lath, interior alterations. Preliminary sketches being drawn.

Office and Warehouse, 780 Wright street, Camden, N. J. Architect, private plans. Owner, Mockett Const. Co., Sixth and Market streets, Camden, N. J. Brick and concrete, 1 story, 38x100 feet, concrete foundations, slag roof, concrete floors, steam heat, electric light. Owners will build.

Parsonage, Carney's Point, N. J. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Presbyterian Church, care of Rev. Bell Close, Carney's Point, N. J. Brick, 2 stories, 30x30 feet. Plans completed. Owners will take bids.

Station, Bridgeton, N. J. Architects, Stearns & Woodnut, Stephen Girard Building, Philadelphia. Owner, South Jersey Farmers' Exchange, care of A. B. Lippincott, general manager, Woodstown, N. J. Brick, steel and concrete, 1 story and basement, 51x151 feet, asbestos shingle roof, concrete foundations, electric lighting, cement floor, freight elevator, grain conveyors. Plans completed. Owners are ready for bids.

Residence (alts. and add.) to Office Building, 221 East Hanover street, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owners, Kennedy & Pidcock Real Estate Co., Trenton, N. J. Brick, 3 stories, 25x18 feet, concrete foundations, slag



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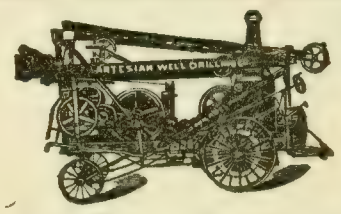
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roof, hardwood floors, electric lighting, tile work, general alterations to heating and electric work. Plans in progress.

New Jersey Contracts Awarded

Manufacturing Building, Muirheid avenue, Trenton, N. J., $6,500. Architect, private plans. Owners, Star Porcelain Co., Muirheid avenue, Trenton, N. J. Brick and steel, 2 stories, 30x73 feet, slag roof, concrete floors, electric lighting. Contract awarded to C. R. Randall, 43 North Hermitage street, Trenton, N. J.

Rest Room, Mill street, Trenton, N. J., $3,500. Architect, Private plans. Owners, Hebrew Benevolent Society, Inc., Trenton, N. J. Brick, 1 story, 38x27 feet, stone foundations, slag roof, hardwood floors. Contract awarded to Samuel Teitz, 469 Brunswick st., Trenton, N. J.

Manufacturing Building, Muirheid avenue, Trenton, $365,000. Architect, private plans. Owners, Mutual Potteries Co., Trenton, N. J. Reinforced concrete and brick, 4 stories, 400x72 feet, concrete foundations, concrete and tile roof, concrete and wood floors, steam heat, electric light, rolled steel sash, elevators. Contract awarded to Stone & Webster, care of D. B. McClellan, 365 North Clinton avenue, Trenton, N. J.

Manufacturing Building, 381 North Clinton street, Trenton, $135,000. Architect, private plans. Owners, Mutual Potteries Co., Trenton, N. J. Reinforced concrete and brick, 1 story, 350x80 feet, concrete foundations, concrete and tile roof, wood and concrete floors, steam heat, electric light, rolled steel sash. Contract awarded to Stone & Webster, care of D. M. McClellan, 365 North Clinton avenue, Trenton, N. J.

Miscellaneous Construction News

School House, No. 76, Latrobe Park, Baltimore, Ml. Architect, Otto G. Simonson, Maryland Casualty Tower Building, Baltimore, Md. Owners, Mayor and City Council of Baltimore, Baltimore, Md. Brick, terra cotta and steel, 3 stories, 271x76 feet and 241x50 feet, slag roof, maple floors metal lath and ceilings, dampproofing, iron work, Bond, hollow metal sash, electric lighting, steam heating, stone foundations. Owners have received bids.

School Building, No. 64, Northwest Corner Garrison and Penhurst avenue, Baltimore, Md. Architects, Mottu & White, Baltimore, Md. Owners, Mayor and City Council of Baltimore, Baltimore, Md. Concrete, brick, terra cotta and steel, 1 story, 1g5x87 feet, Carey roof, maple floors, metal lath and ceilings, waterproofing, iron work, Bond, rolled steel sash, marble work, electric lighting, steam heating, stone foundations. Owners have received bids.

Church, Parish House and Sunday School, Buffalo, N. Y. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, Central Park Methodist Episcopal Church, care of Dr. Drake Skinner, Buffalo, N. Y. Stone, 1 and 2 stories, 125x60 feet and 125x60 feet, slate roof, oak, cement and tile floors, steam heating, electric lighting, hollow tile, metal lath, elevators (elevator and heating reserved). Robert E. Williams, Buffalo, N. Y., will build.

Museum, Woodward and Kirby avenues, Farnsworth and John streets, Detroit, Michigan, $2,000,000. Architect, Paul Cret, 1535 Chestnut street, Philadelphia. Owners, City of Detroit, Detroit Art Museum, care of Clyde H. Burroughs, director and secretary, Jefferson avenue and Hastings street, Detroit, Michigan. Marbe, 1 and 2 stories, 300x150 feet. Preliminary plans in progress.

Theatre, Wilmington, Del. Architects, Zink & Sparklin, 1 Holtz avenue, Baltimore, Md. Owners, Parkway Theatre Co., Wilmington, Del. Brick and steel, 1 story, 100x100 feet, concrete floors, hollow tile, metal lath, tile and marble work (heating, plumbing and electric work reserved). Architects have received bids.

Proposals

INVITATIONS FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 18, 1920. Sealed proposals will be opened in this office at 3 P. M., November 15, 1920, for the construction of an extension to the United States Marine Hospital at Philadelphia, Pa. Drawings and specifications may be obtained from the custodian or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Octo-

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ber 21, 1920. Sealed Proposals will be opened in this office at 3 P. M., November 19, 1920, for alterations, etc., to the United States post office and custom house at Oswego, N. Y. Drawings and specifications may be obtained from the custodian at the building or at this office, at the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 20, 1920. Sealed Proposals will be received separately, for the different materials and for labor by the different trades, and opened in this office at 3 P. M., November 18, 1920, for the construction of the United States Post Office at Athens, Tenn. Materials required will include concrete, reinforcing metal, stone, brick, miscellaneous iron and steel, composition roofing, dampproofing, sheet metal, plastering, interior marble, sanitary slate, lumber, mill work, painting, hardware, plumbing, heating, electric work, etc., in accordance with drawings, specifications, and bills of quantities attached thereto, copies of which may be obtained from the Custodian of the site at Athens, Tenn., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 892)

promoter A, and he offers a better house for less money in the bargain. It does not take a financial genius to see that promoter B will sell his ten houses before promoter A gets a good start and so will have his capital released to start some more houses, and so buy more materials from the dealer who makes another profit due to the quicker turn over of B's money. In the case of individuals building homes it is perfectly safe to say that the ratio of people who can afford to build under scheme number two as compared with those who can afford to build under scheme number one will be much greater than the four to five which represents the relative ratio of costs.

Any legimate method which can be adopted to reduce the cost of construction is an absolute necessity at this time. As soon as proper construction can be started all producers and distributors are going to find themselves hard put to supply the demand, but this demand must first be created by reducing the present high cost of housing. In a tabulated statement it was shown that lime had increased less than any other building material, the increase in cost being but 78%, while the average for all other materials was 108%. When we consider that it requires one ton of coal to burn on an average of about 3 tons of lime, and that this one item of cost, alone, has increased about two hundred per cent., we can readily see that the manufacturers of lime were fully justified in making this modest increase in price.

There are many other uses for lime in and about the home after it has been constructed and incidental to its occupancy. These several uses will not consume very much lime in the individual home but if wide publicity could be given them and the public educated to the proper degree, the aggregate tonnage of lime which could be disposed of for these purposes would be large. Let us take the time to consider a few of these uses. The household heating unit, whether it be a hot air furnace, steam or hot water generator, suffers and deteriorates more during the summer from rusting than from actual use. If the grates and ash compartments are well cleaned in the spring after the fire is stopped and a quantity of lump lime placed on the grates and in the ash compartment, this lime will absorb the dampness and prevent rusting. A few lumps of lime placed around the cellar will free it of dampness and any musty odors. A good coat of whitewash will do more towards making a cellar or closet sweet and sanitary than almost any other thing. Small pieces of lump lime in a dish placed in the refrigerator and renewed at frequent intervals will keep it dry, sweet and clean. A spoonful of slaked lime worked into the soil of potted plants will kept the soil sweet and materially improve the health of the plants.

Let us now consider the value of lime in the heavier types of construction. It has gotten to be quite the fashion for Building Codes and designers, to specify cement mortar for laying up the structural units of large buildings with the idea that the cement mortar is so much stronger than the lime mortar. A couple of years ago, Prof. Maggregor, of Columbia University, conducted a very extensive series of tests to determine the relative values of straight cement mortars as compared with mortars composed of various mixtures of cement and lime. All of the mortars tested were basicly of a one to three mix, that is to say, three parts of sand were used to one part of cementing material. His test specimens were prepared by a practical brick mason and consisted of piers of face brick with the several mortars. These test specimens were aged and tested to destruction during three periods of time, viz.: 7 days, 28 days and 3 months. All specimens at all ages containing up to and including 50% of lime gave higher results than did the specimens laid up in plain cement mortar. At the age of three months, the average value of the specimens containing 50% of lime was 34½% higher than the average value of the plain cement specimens. At this same age the average value of specimens made with a mortar composed of 25% of cement and 75% of lime was but 4% less than the average value of the plain cement specimens. All of the specimens laid up with plain lime mortar gave values far above the loadings allowed by any building code, being about ¾ of a ton per square inch at 7 days and within a small fraction of 1 ton per square inch at 3 months. A check series of tests in which the specimens were laid up with common brick, verified these results.

There is no class of structures in which the mortar is subjected to greater stresses than in tall chimneys and stacks, an examination of the specifications prepared by the companies which specialize in chimney construction will show that as a general rule they call for a mixture of cement and lime in the proportion of one part of cement to two parts of lime. This, in itself, should be sufficient refutation of the fallacy that straight cement should be used in heavy construction work.

Owing to the durability, the pleasing effects which may be obtained and incidentally to the high cost and often unsatisfactory results obtained by other finishes, the plastering of, or as more commonly called stuccoeing, the exteriors of buildings of all kinds is rapidly growing in favor. At the present time, there is a wide divergence of opinion among the architects and engineers as to the proper methods of preparing and applying stucco. A list of the ingredients, prepared from a collection of stucco specifications, would include about everthing which possesses any known cementing value and many, which sad experience has shown, have no cementing value. The methods of preparation and application vary as greatly as the ideas as to how an automobile should be constructed, and runs the entire possible gamut with many impracticable requirements thrown in for good measure. Sight has been lost of the facts that good stucco is dependent upon good workmanship, careful flashing and properly prepared materials of demonstrated durability and integrity. When we consider that stucco made of lime, by the ancients, has resisted the ravages of time during a period of more than twenty centuries, that the fine examples of the same material still in existence on the buildings erected in Europe during Medieval times, or coming closer to home, the many examples to be found on the Colonial buildings of our own coun-

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try, are all still giving most excellent service, can one doubt that lime stucco is a durable, dependable, structural material. No other material ever used by mankind has successfully passed the severe tests of time, weather and wear, as has lime.

The most recent application of lime to construction is the admixture of hydrated lime to concrete. This is a relatively new application and like most new things, is meeting with some opposition on the part of those who do not appreciate the benefits to be derived and are too self satisfied or engrossed in other matters or interests to give the subject the consideration which is due it. Hydrated lime is one of the most finely divided materials known, this extreme fineness is due entirely to chemical action and not mechanical grinding. When made into a paste with water it becomes the slipperiest, smoothest, and at the same time, the stickiest material used in modern construction. This paste has a remarkable covering capacity and imparts the properties of slipperiness and smoothness to other structural materials with which it comes in contact. You are all familiar with the fact that cement mortar which contains a percentage of lime paste will work much more smoothly, faster and will not crumble or curl as so frequently happens with straight cement mortar. When we add hydrated lime to the other ingredients going to make concrete, we do exactly to the concrete what the lime paste does to mortar, that is, the concrete is made more workable, more plastic and holds together better, the result is that the concrete will flow down chutes easier, will slip from barrows or buggies cleaner, will not unmix, will flow into the forms with less aid and effort, will flow around and lie closer to reinforcement, will work its way into restricted places, will lie closer to the forms themselves, thus making more uniform smoother faces to the finished work. The internal lubrication of the mass, causes the individual particles of sand and coarse aggregate to slide over and around each other more readily and so arrange themselves in a more compact, denser mass. The hydrated lime, being so much finer in texture than any of the other ingredients, slips into and fills up what would otherwise be minute voids within the mass and this, combined with the tendency of the other ingredients to arrange themselves more compactly, makes the entire mass so much more dense that it becomes watertight.

These properties have a direct economic value to the structure and data kept by many contractors and engineers have demonstrated that the cost of the hydrated lime was considerable more than made up by the reduced cost of transporting, placing and finishing the concrete.

One of the liveliest subjects before us today is the matter of improved highways and it has been conclusively proven that in most cases the concrete highway is the best solution of the problem, since concrete resists wear better and is far more durable with less up-keep cost than any other type of construction.

As a result of several years investigation and observation, the State of Delaware has now standardized 1-2-4 concrete with an admixture of hydrated lime for all of its road work. Prior to the adoption of this standard, the mixture of 1-1½-3 concrete was used.

Since sand and gravel or broken stone are available almost anywhere and are the cheapest ingredients of concrete, the fact that more satisfactory results can be obtained with the leaner mixture means that a greater mileage of road can be built for the same amount of money.

The practice of specifying hydrated lime in concrete is growing rapidly among the progressive engineers and architects, and the public regulatory bodies are awakening to the benefits to be derived from the proper use of hydrated lime for this purpose. After several months study and investigation, the Board of Standards and Appeal, which is the court of last resort as far as methods and materials of construction for the City of Greater New York is concerned, passed a rule permitting the use of hydrated lime in concrete. The newly adopted Building Code of the City of Pittsburgh, which was in preparation for several years, permits and suggests the use of hydrated lime. The 1920 edition of the Standard Building Code of the National Board of Fire Underwriters, suggests and permits its use. The City of Baltimore and the Building Departments of many other cities throughout the country permits it. It is unfortunate that the Building Department of your city, continues to prohibit the use of hydrated lime in concrete and restricts the use of lime in mortar to the extent it does. This is particularly unfortunate for the reason that your city is situated adjacent to one of the greatest lime producing sections of the country and a section which produces one of the highest grades of lime known. These restrictions prevent the builders and consumers of this section from taking full advantage of the wonderful gift which nature has placed at your very doors and incidentally prevents the distribution by you gentlemen of a material of known and proven worth.

Were these restrictions removed and full advantage taken of the possibilities of your back yard sources of supply, the lime industry would be greatly encouraged and, as it expanded in response to the increased demand, the industrial wealth of the entire community would be increased. Many communities through the medium of their Boards of Trade or Chambers of Commerce do all within their power to stimulate business in their districts and to induce new industries to establish themselves, since it has been found that such a policy redounds to the benefit of the entire locality. While this argument may seem altruistic, increased production and prosperity in a community is bound to have great individualistic beneficial results also.

Before closing, I would like to make a few remarks about the use and properties of hydrated lime in applications other than concrete mixtures. The larger building operations of the day are, as has been said, conducted with the primary idea of speed in construction, incidentally they are, as a rule, limited as to space available, particularly those in the congested sections of our cities. For these two reasons, materials must of necessity be delivered to the work in such form as to be immediately available for use. Hydrated lime falls in this class of materials. There is no secret as to what hydrated lime is and the manufacturers of it court the fullest investigation of their plants and inspection as to the several steps in its preparation. It is simply thoroughly and completely slaked lime, prepared under carefully regulated factory conditions, freed from all impurities and offered to the consumers in the form of a fluffy white powder put up in conveniently sized packages. Hydrated lime is a self checking material, in that if it is not pure and completely hydrated or slaked, if you prefer that term, it is not possible to keep it in paper bags, and this is the form of package used.

It is possible to mix up mortar or plaster with hydrated lime and use it at once, in just the same manner as portland cement or the substitutes for lime may be used, in the case of plaster though, better results are obtained if the lime is soaked for about 24 hours prior to sanding. The use of hydrated lime in concrete, does not disturb the requirements as to the amounts of any of the other ingredients, since the hydrated lime is an additional ingredient, the proportions of cement, sand and coarse aggregate remaining exactly the same.

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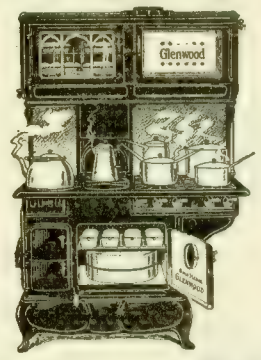
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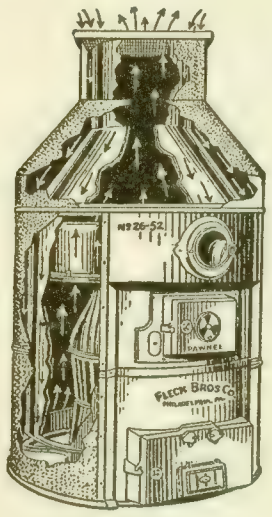


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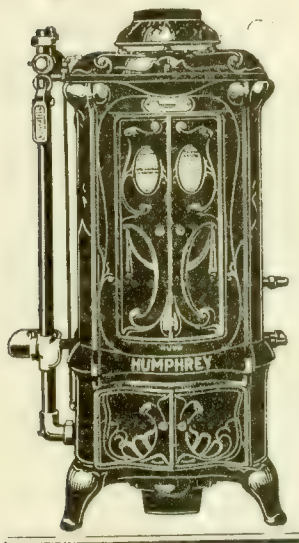
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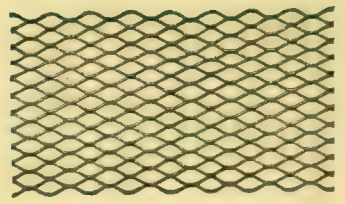
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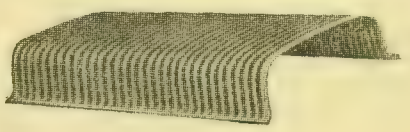
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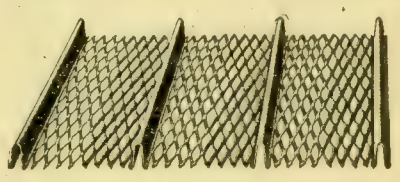
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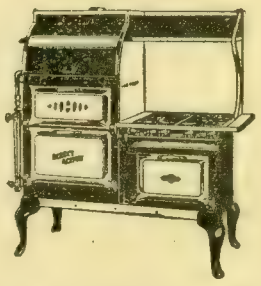
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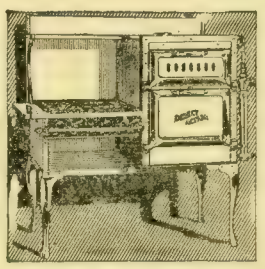


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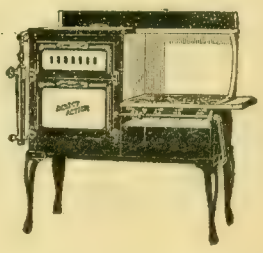
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Builders' Guide

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Vol. XXXV, No 44
November 3, 1920

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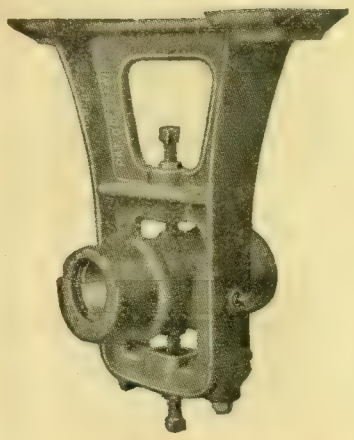
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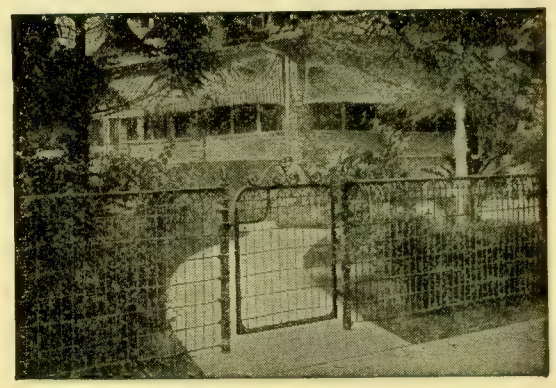
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 44

PHILADELPHIA
November 3, 1920

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As The Editor Sees It

A BRITISH housing expert, now visiting in the United States, to study housing conditions here, has expressed great surprise at the lack of interest shown by the American government in the housing situation. America is, in fact, practically the only country where the Government has not taken steps to solve the housing problem and make possible the erection of the necessary homes for its people. Every day the shortage of homes grows more acute and there is, as yet, no definite action in view to relieve the existing conditions. In a recent issue of the *Bulletin of the Illinois Society of Architects,* Mr. F. E. Davidson, tells what he believes may be done to start building. Mr. Davidson says:

"Any analysis of the statements of those whose experience justifies their expressed opinion of what may be expected in the near future as to the revivial of building may be briefly summarized as follows:

"1. Considering the present shortage in construction, estimated at three and one-half billion dollars in the United States, it will require the best of efforts of the entire construction industry working at maximum capacity for ten years to fill this gap and get back to normal.

"2. No material reduction in either material or labor costs may be hoped for for some time.

"3. Building costs will be slightly lowered just as soon as the transportation systems are able to function normally, for then building materials may be secured as required and the time necessary for the completion of a structure materially shortened as compared to the time required in the immediate past. This shortening of the time of construction will reduce the amount of carrying charges. An increased output of the building mechanics which may be expected, due to a scarcity of work and the consequent competition for jobs, will also, in a small measure, reduce building costs.

"4. Money is still, and for some years will be, the controlling factor. Money will be invested in building securities in direct ratio as the return on the sums invested bears to the return of moneys invested in bonds and other securities.

"5. A vast amount of construction for housing is imperatively needed. Private capital will not invest until rent returns are advanced to yet higher levels, or until real estate securities are made more attractive in other ways.

"6 There are two methods suggested to make real estate securities more attractive to investors:

a. Repeal the income tax.

b. Exempt from all taxation for a period of years, moneys invested in buildings.

"7. The alternative is for the nation, state or municipality to raise money by taxation or bond issues to construct needed housing, letting the financial loss of such a proceeding be borne by the entire community."

* * *

MONEY, or rather the lack of it, seems to be the greatest obstacle in the building game today. In the *Builders' Journal,* C. Stanley Taylor tells us, that a number of builders, failing to get mortgage money locally, are wondering whether it is possible to get mortgage loans from individuals or corporations located outside of their own territory. Generally speaking, it may be said that there is practically no outside mortgage money obtainable. As practically every builder has experienced, mortgage money is at best very difficult to obtain. In some cases, such as in the Detroit district, the allowable rates of interest have been increased and where money is available at all there is usually a bonus payment involved which makes it almost impractical to utilize such funds to advantage.

Just when building loan and permanent mortgage money will "loosen up" it is extremely difficult to predict. Certainly, at the present time so many inducements are offered to the use of capital in other lines that the stable line of building is suffering from lack of financing in a manner never before known when the needs of buildings of every kind was so great.

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A comparative study of building activity shows that where the demand is greatest and rental incomes and sales possibilities are highly developed, building is much more active than at other points. It is plainly evident that some mortgage money is available if a sufficient inducement is offered to the lender; but to be able to make a sufficient inducement there must be a reasonably attractive investment first to the builder or owner who undertakes a new building operation.

In seeking to obtain mortgage money, therefore, the usual procedure must be somewhat reversed, and a builder who is undertaking a new project should (possibly with the assistance of a real estate broker) determine exactly what offer he can make in order to get the necessary building loan. It may be that the rental income or the sales possibility of the operation which he contemplates is such that he can afford to pay unusually high rates or a substantial bonus in order to obtain required mortgage funds. In the case of an investment property it may be that local rentals are so high that it will be possible to set aside a sinking fund to take care of the additional interest fees represented in the cost of financing.

The builders' best method of obtaining money at the present time would seem to be from individuals or from loaning institutions which are not generally in the market to make loans, but which might be induced to make necessary loans if a sufficiently attractive offer for the use of the money can be made. In many instnaces an ordinary loan application will be turned down with the statement that there are no funds available. On the other hand, if accompanying this application it is possible to make an inducement in the way of a bonus offered, much more consideration will be given by loaning institutions.

Certainly, however, it is evident that if in no locality in the country there is sufficient money to meet local building loan demands, it is practically impossible to get money from such sources for use elsewhere. The builder who is working out plans, therefore, hoping to get money from an outside source, is wasting his time, unless he has definite connections or has received encouragement from some particular loaning interest.

In view of the increasing popularity of the co-operative method of financing building construction, it would be much more to the advantage of a builder to develop a project upon this plan, trusting to obtain financing through the contributions of a number of individuals interested in obtaining space in the contemplated building.

This co-operative method of financing the construction of buildings, would seem to be the logical next step in seeking mortgage money, rather than attempt through casual inquiry to find a source of mortgage loans in distant localities. It is true that for highly specialized operations there are national loaning institutions through which applications may be made for financing, but as a general rule, and as already explained, the seeking of outside mortgage loan funds constitutes definitely a waste of time on the part of the average builder.

During the past two years real estate subdivisions have been enjoying phenomenal success in the market of home building sites, particularly on the easy payment plan. It is found, upon analysis, that subdivision activity follows industrial development. Thus in the automobile towns of the Middle West this activity has been at its height. Many real estate dealers have predicted a great falling off of sales during this year, but from average reports it would seem that the public, particularly that percentage of the public represented by industrial employes, is steadily investing.

Real estate subdivision business has been highly developed to a point where attractive home sites are sold for low down payments and on easy weekly or monthly installments. While it is understood that a large percentage of these home building sites will not be built upon for many years, the purchase of sites, together with the known condition of housing shortage in practically every industrial community, offers reassurance to many builders as to the development of sound activity in this field of investment. If it were not for the difficulty of obtaining building loans thousands of homes would be constructed immediately in spite of high costs, because where a housing shortage exists rental increases have been so great that owners of lots would be willing to build at almost any cost if they could be assisted in financing building operations.

Gradually, practical plans for financing home building are being developed in various communities and through these plans it will be possible for the speculative builder to keep his assets liquid and to continue the construction of homes. Certainly the first step in obtaining a home or in causing a home to be built is the purchase of a lot, and following a continued period of activity in home site purchasing there is always a period of activity in home building which extends even into a time when general business conditions are not good.

Many owners of lots are at the present time seeking to meet the housing shortage by building inexpensive shacks, ready-cut houses or garages on lots which they have purchased on easy payment plans, contemplating living in such buildings until they are in a position to build permanent homes. Wise builders are taking advantage of this state of the public mind by developing practical plans for houses which can be constructed one unit at a time and for the construction of garages which can be made habitable until such time as the owner is in a position to build his home. The construction of shacks or very inexpensive houses on

(Continued on page 919)

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Residence (alts.) to Apartments, 2015 North Park avenue, Philadelphia. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, Gustavus Josephs, 2020 North Park avenue. Brick, 3 stories, general remodeling for apartments. Architect taking bids due November 4th. I. Days, 1613 North Twelfth street; M. A. Greene, 1607 North Thirteenth street; J. Frank Grant, 1625 North Thirteenth street; O. L. Gordy, 118 Salford street; Calvert B. Stevenson, 2319 Columbia avenue, and Edw. S. Hatzfield, 1828 North Sixteenth street, are figuring.

Bridges, State road and Rhawn street, Holmesburg, Philadelphia. Architect, John P. B. Sinkler, city architect, 826 City Hall, Philadelphia. Owners, Home for Indigent, Holmesburg, Philadelphia. Siding steel, 97 feet long, 8 feet wide, slate roof, composition floors, hollow tile, metal lath, safety treads, metal weather strips, iron work, bond, marble work, hollow metal doors. Lowest bidders: Mitchell Bros., 2125 Race street, $27,792; F. A. Havens Co., 845 North Sineteenth street, $27,950.

Public Park Improvements, Cresson street, Cotton street, Silverwood and Rector street, Twenty-first ward, Philadelphia. Architect, private plans. Owner, City of Philadelphia, Department of Public Works, Room 216, City Hall. Grading, drainage, water supply, concrete footways, curbs, walks, concrete circle, stone walls, piers, steps, foundations and landings. Lowest bidder: George Dobbin, 4615 Springfield avenue.

Stables (alts.), Eleventh and Wharton streets, Philadelphia. Architect, John P. B. Sinkler, 826 City Hall, Philadelphia. Owner, City of Philadelphia, Department of Public Safety, City Hall, Philadelphia. New cork brick floor, mill work, carpentry. Lowest bidders: George Dobbin, 4615 Springfield avenue, $4,485; C. Day, 3503 Decatur street, $5,225.

Grading, Painting, Concrete Walls and Column Foundations, Frankford Elevated, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, care of William S. Twining, Director, 1211 Chestnut street, Philadelphia. Grading, painting, iron, steel, platform shelters, etc. Owners taking bids due November 11th, 15th, 17th, 19th and 23rd on Contracts Nos. 580, 590, 589, 588, 587, respectively.

Residences (8), Oak Lane, Philadelphia. Architect, private plans. Owner, R. W. Abronski, 1615 Stiles street, Philadelphia. Brick and stucco, 2 stories, 20x40 feet, slag roof, hardwood floors, hot water heating, electric lighting, stone foundations. Owner is taking sub-bids.

Building (alts.), Northeast Corner Broad and Locust streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, name withheld. Iron work, roof repairs, plastering, metal lath, carpentry, electric work, marbel work, tile work, composition floor, plumbing. Architect taking bids. John Schnable, Denckla Building; Wark & Co., 1737 Filbert street; D. Henwood, 717 South Sixtythird street; S. Yellin, 3125 Montgomery avenue, are figuring.

Telephone Exchange, Foulkrod and Leiper streets, Frankford, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Work contemplated. Preliminary sketches drawn.

Rooming House (alts. and add.) and Storage (add.), 221-223 South Thirty-sixth street, $3,700. Architect, private plans. Owner, E. E. Bratton, 119 South Thirty-sixth street, Philadelphia. Brick, 1 story, irregular size, alterations, storage, 1 story, irregular size. Owner will build.

Building (alts.), B and Allegheny avenue, Philadelphia. Architect, Willis A. Hall, East Lansdowne, Pa. Owners, York Button Works, on premises. Architect taking bids. George P. Clayton, 1817 North Twentieth street, is figuring.

Residence (alts.) to Apartment House, Southeast Corner Seventeenth and Summer streets, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, T. J. & J. R. Whelen, 1011 Chestnut street, Philadelphia. Complete remodeling of entire building into first-class modern apartment house, hot water heating, electric lighting, plumbing, tile and marble work, fire tower, porches, hardwood floors. Plans in progress.

Hall (alts.), Germantown avenue below Jefferson street, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, name withheld. Renovating building, auditorium, 500 seating capacity, metal ceilings, plastering, painting, fire tower, iron work. Plans in progress. Architect will be ready for bids in two weeks.

Store and Shop (alts.), 38 North Ninth street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Price Electric Mfg. Co., on premises. Carpentry, mill work, iron work, marble and tile work, hardwood floors, painting, glazing, flush bulks, metal lath, plastering, hand elevator. Architects have received bids.

Woodworking Shop and Foundry Building, Forty-second and Woodland avenue. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, name withheld. Brick, 1 story, 50x100 feet, slag roof, pine and concrete floors, concrete foundations (plumbing, heating and electric work reserved). Foundry, corrugated iron siding and roof, 1 story, 50x80 feet, rolled steel sash, monitor, concrete footing, steel frame. Plans completed. Architects will take bids in a few days.

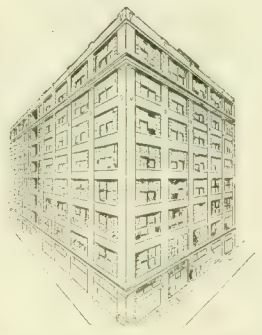
Residences (32), Windrim street between Marvine and Warnock streets, Philadelphia. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, John T. Clasby, 4939 North Franklin street, Philadelphia. Brick, 2 stories, 15x42 feet, slag roof, hardwood floors, stone foundations, electric lighting, hot water heating, tile work. Plans completed. Owner will take bids after January 1st.

Residence, Vista street, West of Peddway, Philadelphia, $3,500. Architect, private plans. Owner, Fred Wendel, 1944 East York street, Philadelphia. Frame, 2 stories, 20x30 feet, slag roof, pine floors, hot water heating, electric lighting. Owner will build.

Offices (alts.), 3446 Walnut street, Philadelphia, $4,000. Architect, private plans. Owner, Trustees of University of Pennsylvania, on premises. Roof repairs, carpentry, mill work, painting, glazing, heating repairs. Owners will build.

Building (fire repairs), 420 Sansom street, Philadelphia, $10,000. Architect, private plans. Owner, George W. Miller, 1001 Chestnut street, Philadelphia. Temporary restora-

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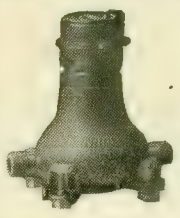


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tion of entire building. Owner will build and is taking sub-bids.

Public Ward Buildings and Smallpox Cottages, Second and Luzerne streets. Architect, private plans. Owners, City of Philadelphia, Department of Public Health, 584 City Hall. Lowest bidder: E. C. Durell, 1713 North Twenty-fourth street, $12,000.

Dwelling, Southeast Corner Fortieth street and Conshohocken avenue, Philadelphia, $11,000. Architect, private plans. Owner, H. B. Cooper, Jr., Fortieth street and Falls road, Philadelphia. Stone, 2 stories, 33½x37½ feet, slate roof, hot water heating, electric lighting, hardwood floors. Owner will build.

Building, 328-30 Noble street, Philadelphia. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Keystone Table Manufacturing Co., on premises. Brick, 2 stories, 111x38 feet, slag roof, pine floors, elevators, stone foundations, steam heating, electric lighting, rolled steel sash, hollow metal skylights, iron work. Architect taking bids, due November 4th. John Schnable, Denckla Building, is figuring. Only bidder.

Buildings (removal and alts.), Commercial Museum, Philadelphia. Architect, private plans. Owners, Philadelphia Museum, Thirty-fourth and Pine streets, Philadelphia. Removing stable to new location, concrete piers, South Building of Commercial Museum, carpentry, metal work, copper work. Low bidders, Michell Bros., 2125 Race street, Philadelphia. Museum, $2,345; stable, $1,295.

Residence (alts. and add.), Overbrook, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, T. Wistar Brown, 3rd,. Overbrook, Philadelphia. Carpentry, metal lath, plastering, plumbing, tile work. Architects taking bids, due Nov. 5th. Frank E. Wallace, 1220 Chancellor st.; Jacob Myers & Sons Co., Witherspoon Building, and Alfred James, Bala, Pa., are figuring.

Residence (alts.), 430 Allen Lane, Mt. Airy, Philadelphia. Architect, Herbert J. Wetherill, 420 Allen Lane, Mt. Airy, Philadelphia. Owner, Mrs. Francis B. Bracken, on premises. Electric work, new flooring, new heating radiators, electric work, painting, glazing, plastering, carpentry, mill work. Architect taking bids, due Nov. 5th. F. B. Davis & Son Co., 240 North Sixteenth street; Wm. J. Graughler, Co., 219 High street, and Wm. C. Wright, 22 Harvey street, are figuring.

Store Building, 1102 Arch street, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, A. Graboyes, 1214 Belmont avenue, Philadelphia. Brick, 3 stories, 20x89 feet, slag roof, pine floors, metal lath, mill work, metal ceilings, fireproofing, metal bulks, plate glass, rolled steel sash, marble work, electric lighting, steam heating, stone foundations. Architect will be ready for sub-bids November 4th.

Residences and Garages (2), Frankford, Philadelphia. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner's name withheld. Brick and stucco, 2 stories, 16x45 feet, and brick, 1 story, 9x19 feet and 15x22 feet, tin roof, tile or slate roof on residences, hardwood and pine floors, hot water heating, electric lighting, cement work. Plans in progress.

Woodworking Shop and Foundry Building, Forty-second and Woodland avenue, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owners, Morris Truck and Wheel Co., Seventy-fifth and Island Road, Philadelphia. Brick, 1 story, 50x100 feet, slag roof, pine and concrete floors, concrete foundations (plumbing, heating and electric work reserved). Foundry, corrugated iron siding and roof, 1 story, 50x80 feet, rolled steel sash, monitor, concrete footing, steel frame. Architects taking bids, due November 10th. Thos. C. Trafford, 1613 Sansom street; Ketcham & McQuade, 1029 Brown street; Graham & Wells, 3649 Filbert street; Robbins Cont. Co., 1137 North Front street; John N. Gill & Co., Otis Building, and H. E. Baton, 1713 Sansom street, are figuring.

New Front to Building, 5614 Germantown avenue, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Chelten Trust Co., on premises. Brick, concrete, steel, cut stone, slate roof, marble and tile work, composition floors, metal lath, steel sash, electric work, painting and glazing, 2 stories, 51x10 feet, stone foundations. Architects taking bids, due November 8th. H. E. Baton, 1713 Sansom street; Pringle Borthwick, 8018 Germantown avenue; F. W. Van Loon, Perry Building; Fred Elvidge & Son, 5522 Germantown avenue; Robt. E. Lamb Co., 843 North Nineteenth street, and Wm. J. Gruhler Co., 219 High street, are figuring.

Stable, 2078 East Tioga street, Philadelphia, -3,000. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner, Harry Streecker, 2066 East Tioga street, Philadelphia. Brick, 2 stories, 31x50 feet, slag roof, cement and plank floors, fire doors, electric work, iron columns, plumbing. Owner will build and is taking sub-bids.

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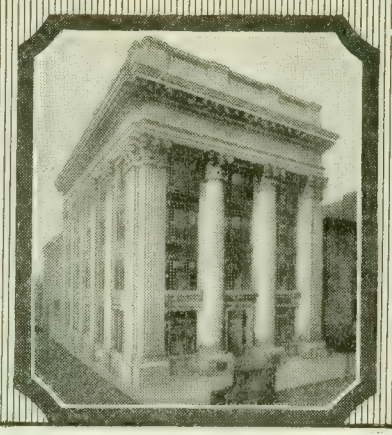
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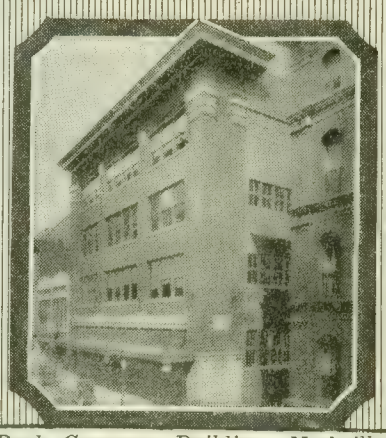
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International Harvester Co. of America, Nashville, Tenn. Arch: Concrete Engineering Co., Chicago, Ill. Gen'l Cont: Foy-Proctor Co., Nashville, Tenn. Roofer: C.C. McInturf, Nashville, Tenn.



Burk Company Building, Nashville, Tenn. Arch: C. A. Asmus, Nashville, Tenn. Gen'l Cont: J. W. Patrick, Nashville, Tenn. Roofers: Phillips & Buttorff Mfg. Co., Nashville, Tenn.



Castner-Knot Dry Goods Co., Nashville, Tenn. Arch: M. P. McArdle, St. Louis, Mo. Gen'l Cont: Selden-Break Co., St. Louis, Mo. Roofer: Uncle Hiram Roofing Co., Nashville, Tenn.



Fourth & First Nat'l Bank Bldg., Nashville, Tenn. Arch: Ludlow & Peabody, New York City. Gen'l Cont: Foster-Creighton Co., Nashville, Tenn. Roofer: Phillips & Buttorff Mfg. Co., Nashville, Tenn.



Cumberland Telephone & Telegraph Co. Bldg., Nashville, Tenn. Arch: T. P. Marye, Atlanta, Ga. Gen'l Cont: Southern Ferro Concrete Co. Birmingham, Ala. Roofers: Phillips & Buttorff Mfg. Co., Nashville, Tenn.



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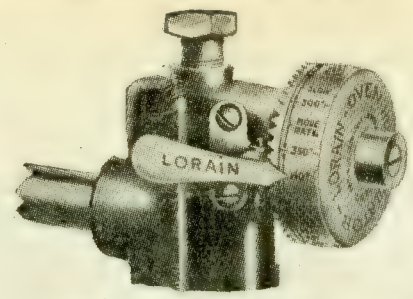
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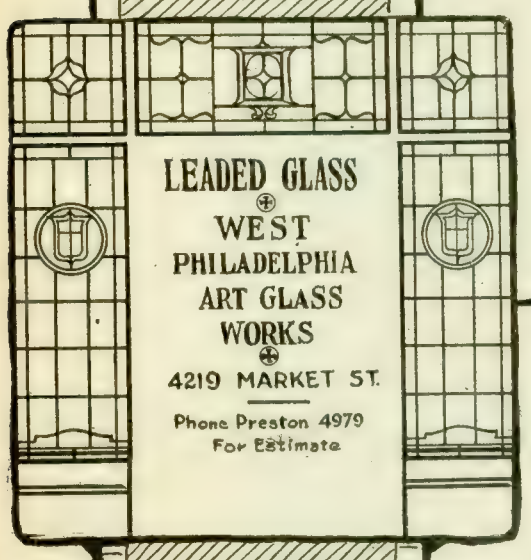
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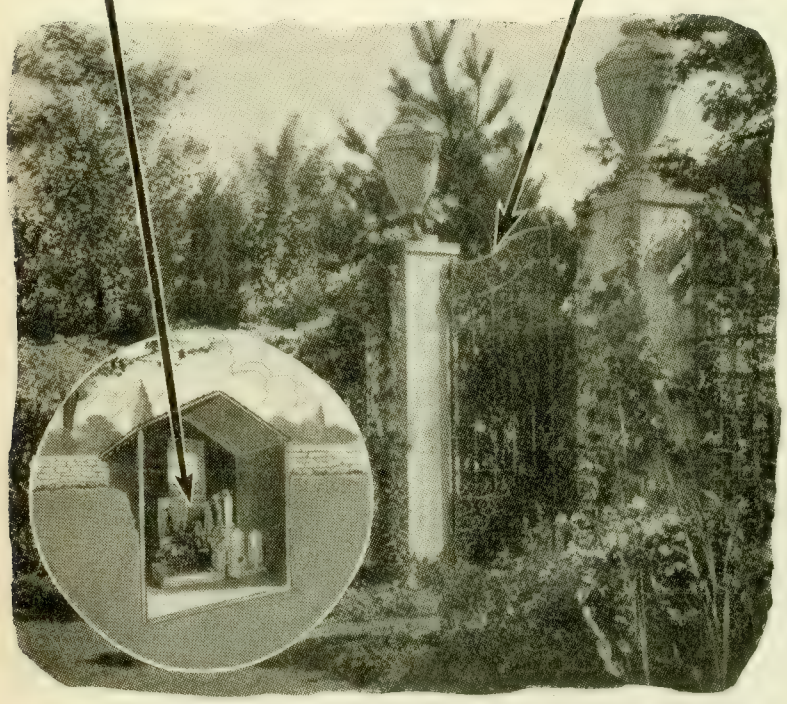
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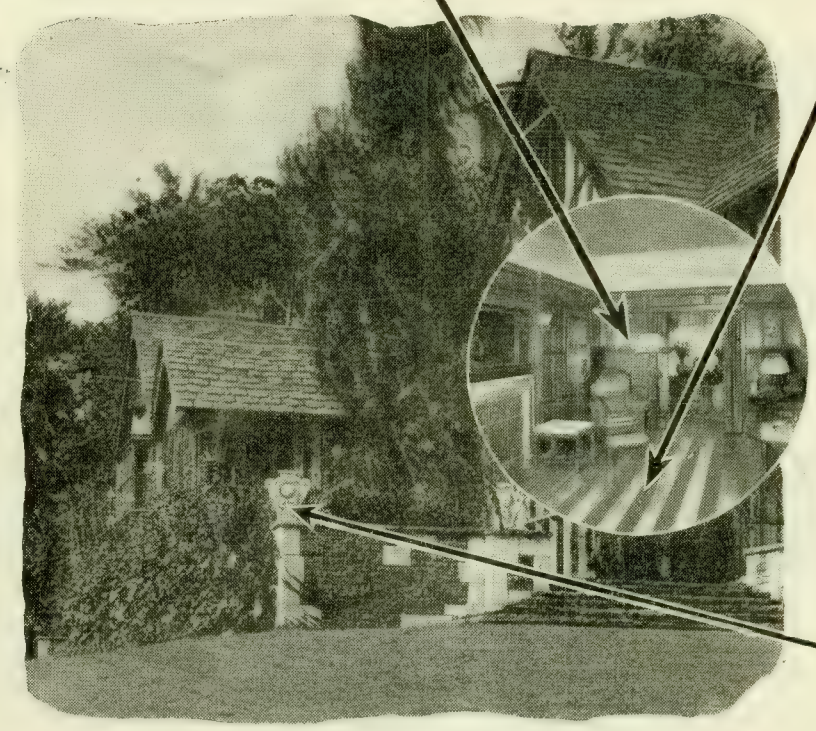
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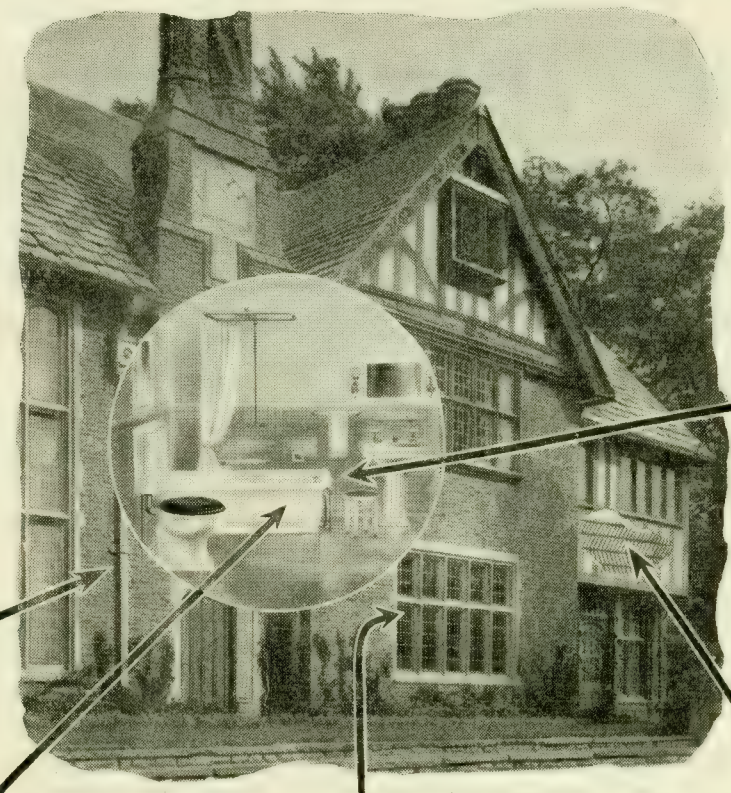


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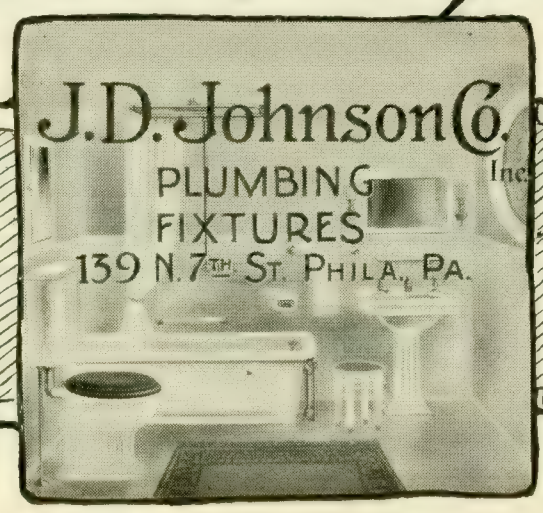


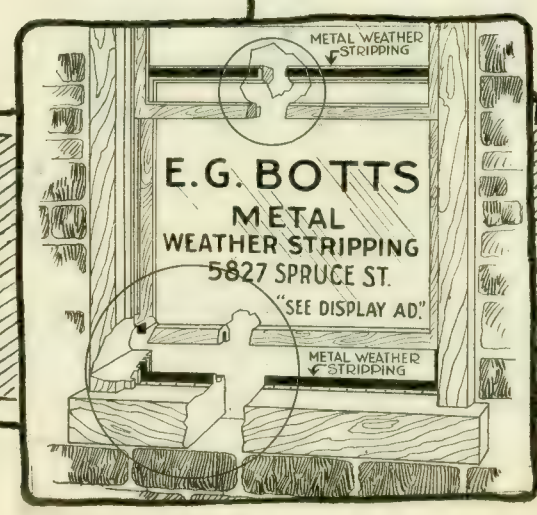


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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Milk Hauling Station and Boiler House, Hunting Park and Torresdale avenue, Philadelphia, $240,000. Architect, William H. Timm, Perry Building, Philadelphia. Owner, Harbison Milk Dairies, Front and Diamond streets, Philadelphia. Brick and concrete, 80x140 feet, slag roof, steam heating, electric lighting, cement floors, steel sash, boiler house, brick and concrete, 1 story, 50x50 feet, slag roof, electric lighting, cement floors. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Factory (add.), Northwest Corner Fifth and Huntingdon streets, $7,000. Architect, private plans. Owners, William Mulherin Sons, Front and Master streets, Philadelphia. Brick, second story add., 20x35 feet, slag roof, electric lighting, pine floors, steel sash, iron work, ventilators, skylights. Contract awarded to Carr & Courtnay, 43 South Seventeenth street, Philadelphia.

Transformer (add.), Milnor street, Philadelphia, $5,000. Architect, private plans. Owner, Henry Disston & Son, Inc., Milnor street, Tacony, Philadelphia. Brick, 3 stories, 14x57 feet, slag roof, electric lighting, concrete floor, steel sash. Contract awarded to Latta & Roberts, Drexel Building, Philadelphia.

Power House, Clearfield street, West of Twentieth street, Philadelphia, $52,000. Architect, Stanford B. Lewis, Dexter Building, Philadelphia. Owner, Glen Knitting Co., Second and Westmoreland streets, Philadelphia. Brick, 1 story, 50x100 feet, slag roof, cement floor, concrete foundations. Contract awarded to Albert B. MacGregor, 1628 Vine street, Philadelphia.

Offices (alts.), Southeast Corner Fifteenth and Locust streets, Philadelphia, $9,000. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owners, Dr. E. R. Sausser and Dr. G. A. Coleman, on premises. Carpentry, mill work, electric light, mineral flooring, heating repairs, gypsum block partitions. Contract awarded to Frank E. Wallace, 1220 Chancellor street, Philadelphia.

Factory (fire repairs), Northeast Corner Richmond and Kennedy streets, $7,500. Architect, private plans. Owners, Charles Lennig & Co., on premises. Carpentry, mill work, painting and glazing. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Vault (alts.), 425 Chestnut street, Philadelphia, $5,000. Architect, private plans. Owners, Philadelphia National Bank, 427 Chestnut street, Philadelphia. Concrete vault doors. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Store (alts.), 1504 Market street, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Retail Candy Stores, care of architect. Carpentry, mill work, painting, glazing, hardward, plumbing, steel and iron work, sheet metal work, kalamein doors, pine floors, plastering. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Store and Dwelling (alts. and add.), 2234 Frankford avenue, $4,200. Architect, private

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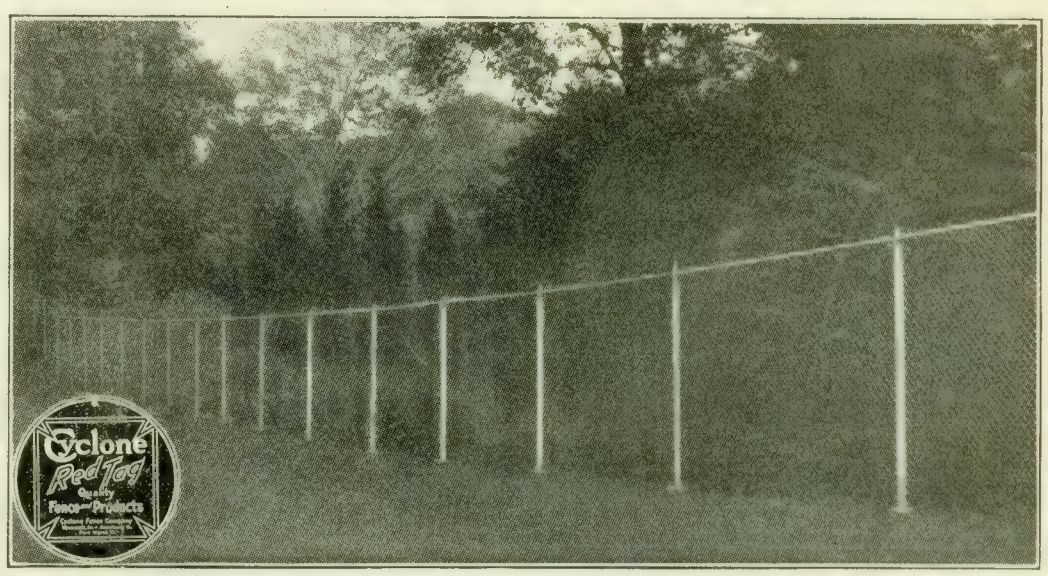
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plans. Owner, Lewis Horning, on premises. Brick, 1 story, 3x16 feet, slag roof, electric lighting, hot water heating. Contract awarded to Harry Drake, 3139 Frankford avenue, Philadelphia.

Office (alts.), 502 Walnut street, Philadelphia, $3,000. Architect, private plans. Owner, Girard Fire Insurance Co., on premises. New partitions, plastering, carpentry, mill work. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street, Philadelphia.

Garage, northwest corner of Forty-eighth and Baltimore avenue, Philadelphia, $2,000. Architect, private plans. Owner, Dr. J. McEldowney, on premises. Brick, 1 story, 20½x16 feet, slag roof, electric lighting, cement floor. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

PENNSYLVANIA
Construction News

Residence (alts.), Bryn Mawr, Pa. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Walter H. Thompson, Bryn Mawr, Pa. Brick work, steel and iron work, carpentry, canvas roof, plastering, tile work, electric work. Architect has received bids.

Residence, Flourtown, Pa. Architect, H. Brognard Okie, Crozer Building, Philadelphia. Owner, H. L. Reid, Bellevue Court Building, Philadelphia. Stone and frame, 2½ stories, 42x36 feet and 20x34 feet. Preliminary sketches drawn.

Isolation Ward, Lock Haven, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, and James Russell Harris 1123 Broadway, New York City. Owner, Lock Haven Hospital, Lock Haven ,Pa. Brick, stone and steel, 2 stories. Plans in progress.

Gateway, Cemetery, Lock Haven ,Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, and James Russell Harris, 1123 Broadway, New York City. Owner, Lock Haven Cemetery, Lock Haven, Pa. Brick, iron and stone. Plans in progress.

Post Office, Allentown, Pa. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. New mezzanine floor. Owners ready for bids due November 16th.

Theatre and Stores, Lebanon, Pa. Architects, Ritcher-Eiler Co., Sixth and Court streets, Reading, Pa. Owners, Reading Realty Co., Reading, Pa. Brick, 1 story, 183x66 feet, stone foundations, composition roof and floors, vapor heat, electric light, tile and marble work, fire doors, metal lath, roof ventilators. Preliminary plans in progress.

Church, Sunbury, Pa. Architects, Ritcher-Eiler Co., Sixth and Court streets, Reading, Pa. Owners, Messiah Lutheran Church, Rev. C. R. Bowers, Sunbury. Stone, 1 story and basement, 86x120 feet, stone foundations, slate roof, hardwood floors, vapor heat, electric light, tile and marble work. Preliminary plans in progress.

Factory (add.), Reading, Pa. Architect, G. L. Gerhardt, 619 Penn street, Reading, Pa. Owner, Eisenlohr Cigar Co., Reading, Pa.

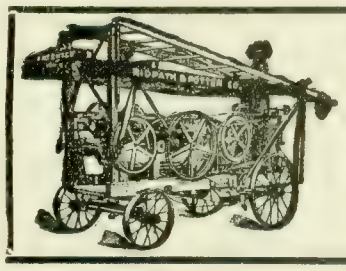


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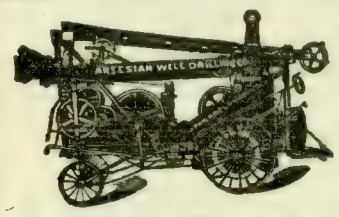
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Garage and Apartments (16) (alts.), 115 Church street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, F. Seibel, 115 Fifth street, Reading, Pa. Brick, 3 stories, composition roof, reinforced concrete floors, steam heating, electric lighting, tile work, general interior alterations. Owner has received bids.

Country House and Farm Building (alts. and add.), near Reading, Pa. Architect, A. F. Smith, Sixth and Court streets, Reading, Pa. Owner, J. B. Cullum, care of architect. Brick, 3 stories, 30x80 feet, stone foundations, shingle roof, hardwood floors, hot air heating, electric lighting. Plans in progress. Architect ready for sub-bids.

Franklin Exchange (alts. and add.), Wilkinsburg, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. General alterations. Owners taking bids due November 8th at 10 A. M., due in Chief Engineer's Office, Philadelphia.

School, South Side, Bethlehem, Pa. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, Bethlehem School District, care of E. Speck, President, Brodhead street and Packer avenue, Bethlehem, Pa. Architect taking bids due November 10th. Butz & Clader, Allentown, Pa.; Penn Const. Co., Bethlehem, Pa.; Horace F. Speck, Bethlehem, Pa., and George Dose Eng. Co., 42 West Twentys-eventh street, New York City, are figuring.

School, West Side, Bethlehem, Pa. Architect, Verus T. Ritter, North American Building, Philadelphia. Owner, Bethlehem School District, care of E. Speck, President, Brodhead street and Packer avenue, Bethlehem, Pa. Architects taking bids due November 10th. Butz & Clader, Allentown, Pa.; Penn Const. Co., Bethlehem, Pa.; Barber & Cissell, Bethlehem, Pa.; Frank J. Gorman, Bethlehem, Pa.; Horace F. Speck, Bethlehem, Pa., and Dose Eng. Co., 42 West Twenty-seventh street, New York City, are figuring.

Bakery, Steelton, Pa. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owners, Acme Baking Co., Harrisburg, Pa. Brick and steel, 1 and 2 stories, 56x189 feet, composition roof, concrete and hardwood floors, electric lighting, elevators, hollow metal sash, baking equipment, waterproofing. Plans in progress.

Residences (2), New Holland street, Lancaster, Pa. Architect, M. A. Evans, 10½ East Orange street, Lancaster, Pa. Owner's name withheld. Stucco, 2½ stories, 22x30 feet, concrete block foundation, slate roof, yellow pine floors, hot air heat, electric light. Plans in progress.

Residence, Harrisburg, Pa. Architect, H. C. Kain, 317 Chestnut street, Harrisburg, Pa. Owner's name withheld. Stone and stucco, 2½ stories, 28x30 feet and 8x20 feet, stone foundation, slate roof, hardwood floors, electric light, tile work. Architect will be ready for bids this week.

Residence, Harrisburg, Pa. Architect, H. C. Kain, 317 Chestnut street, Harrisburg, Pa. Owner, care of architect. Brick and stucco, 2½ stories, 32x37 feet, concrete foundation, slate or tile roof, hardwood floors, electric light, tile work. Architect taking bids, due November 8th. G. E. Sheppard, Chas. Frain, and E. M. Lebo, Harrisburg, Pa., and Lawrence Lebrow, Cumberland, Pa., are figuring.

Bank, Harrisburg, Pa. Architects, Simms, Brittain & England, Pittsburgh, Pa. Associated architect, H. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, East End Trust Co., care of Edw. J. Chulte, Harrisburg, Pa. Stone, 1 story, 73x51 feet, stone foundation, composition roof, tile floors, steam heat, electric light, tile and marble work, hollow tile, structural steel work. Associated architect taking sub-bids.

Orphanage (add.), Abbottstown, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, Paradise Protectorate, care of Bishop P. J. McDevitt, Harrisburg, Pa. Brick and stone, 3 stories, steam heating, electric lighting. Plans in progress. Too early for details.

Residence (alts.), Yardley, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner's name withheld. Interior alterations, new frame sun parlor and sleeping porch, 15x30 feet, shingle roof, pine floors, heating extension and electric lighting. Plans in progress.

Garage, Landisville, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, J. M. Eshelman, Landisville, Pa. Brick, 1½ stories, 22x24 feet, concrete foundations, tile roof, concrete floors, electric lighting. Owner will sub-let.

Pennsylvania Contracts Awarded

Residence—Welsh and Pine roads, Bethavres, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Dr. William R. Sutch, 2638 North Fifth street, Philadelphia. Plaster on brick, 2½ stories, 45x35 feet, slate roof, hardwood floors, stone foundations, electric lighting, hot water heating, tile work. Contract awarded to Praul & Bartberger, 1635 Tyre street, Frankford, Philadelphia.

Stable, Allentown, Pa. Architect, A. F. Smith, Reading, Pa. Owner, Kolb Baking Co., Reading, Pa. Brick, 2 stories, 30x120 feet, concrete foundations, slag roof, cement floors, electric lighting. Contract awarded to W. H. Gangwere, Allentown, Pa.

Bakery (add.), Reading, Pa. Architect, A. F. Smith, Sixth and Court streets, Reading, Pa. Owner, Kolb Baking Co., on premises. Brick, 1 story, 40x80 feet, stone foundations, steel roof, cement floors, electric lighting. Contract awarded to George Derr, Reading, Pa.

Church, Chester, Pa. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owner, Parkside Methodist Episcopal Church, Chester, Pa., care of Methodist Episcopal City Mission and Church Extension Society, care of Rev. J. Watchorn, Seventeenth and

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Arch streets, Philadelphia. Stone and frame, 1 story and basement, 34x30 feet and 12x10 feet, slate roof, stone foundations, steam heating, electric lighting, plumbing. Contract awarded to R. H. Scroggins & Sons, Crozer Building, Chester, Pa.

Stores, Pool Room and Recreation Parlor, Fifth street between Edgemont avenue and Market street, Chester, Pa., $40,000. Architect, private plans. Owners, J. Christopolas & Bro., 407 Market street, Chester, Pa. General alterations and additions, brick, 3 story add., 10x35 feet, slag roof, pine floors, metal lath, stone foundations, steam heating, electric lighting, tile work, fireproof stairway. Contract awarded to R. H. Scroggins & Son, Chester, Pa.

Service Building, Lancaster, Pa. Architect, M. R. Evans, 10½ Orange street, Lancaster, Pa. Owners, Lancaster General Hospital, care of M. Brightener, Harrisburg, Pa. Concrete and steel, fireproof, 2 stories, 48x95 feet, stone foundations, concrete roof and floors, electric lighting, kitchen equipment, refrigeration plant. Contract awarded to Bauchman, Lancaster, Pa.

Garage, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, H. J. Pierson, Lititz, Pa. Cinder concrete block and stucco, 2 stories, 25x40 feet, concrete foundation, tin roof, concrete floors, hot water heating, electric lighting. Contract awarded to Hershey-Leahman Co., Lititz, Pa.

Factory Plant, Harrisburg, Pa. Architect, H. C. Kain, Chestnut street, Harrisburg, Pa. Owners, Hunter Motor Co., care of architect. Frame, 126x107 feet, concrete foundations, slag roof, concrete floors, electric lighting. Contract awarded to Zinn & Miller, Mechanicsburg, Pa.

New Jersey Construction News

Bungalow (alts.), Greenwood Lake, N. J. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner's name withheld. Frame, 1 story addition, electric work, general alterations. Plans in progress.

Fire Station and Drill Yard, Indiana and Baltic avenues., Atlantic City, N. J. Architect, H. A. Stout, Atlantic City, N. J. Owners, Board of Commissioners of Atlantic City, City Hall, Atlantic City, N. J. Brick, steel and concrete, 4 and 6 stories, 10x55 feet. Smoke House, 1 story, 12x12 feet. Tool House and Appliances, 1 story, 76x12 feet. Demonstration House, 1 story, 12x12 feet, slag roof, composition and pine floors, metal lath, waterproofing, floor hardener, bond, fire doors, tile and marble work, electric lighting, steam heat, stone foundations. Architect taking bids. John R. Wiggins & Co., Otis Building, and Standard Const. Co., 1713 Sansom street, Philadelphia, are figuring.

Miscellaneous Construction News

Storage Barn, Westville, N. J. Architect, Walter F. Price, 136 South Fourth street, Philadelphia. Owner, Henry W. Leeds, Locust Grove Farm, Westville, N. J. Frame, clapboard, shingle roof, plank floor, concrete foundations. Plans completed.

Garage, Sixteenth street, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Dr. L. Bell, Second and Monroe streets, Wilmington, Del. Brick, 1 story, 20x78 feet, concrete foundations, slag roof, concrete floors, hot water heating, electric lighting. Architect has received bids.

School Building, Goodyear, Conn. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Board of Education, care of S. P. Marland, Secretary, Killingly, Conn. Concrete, brick and stone, 2 stories, 148x92 feet, slag roof, steam heating, electric lighting, pine floors. Owners will take bids.

School House, No. 76, Latrobe Park, Baltimore, Md. Architect, Otto G. Simonson, Maryland Casualty Tower Building, Baltimore, Md. Owners, City Council and Mayor of Baltimore, Baltimore, Md. Brick, terra cotta and steel, 3 stories, 271x76 feet and 241x50 feet, slag roof, maple floors, metal lath and ceilings, dampproofing, iron work, bond, hollow metal sash, electric light, steam heating. Lowest bidder: Standard Const. Co., 1713 Sansom street, Philadelphia, $495,000.

Church, Albany, Mo. Architects, Charles F. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Albany Presbyterian Church, Albany, Mo. Steel, brick and art stone, 1½ stories, 30x50 feet, slate roof, pine floors, stone foundations, steam heat, electric lighting, iron work. Owners are taking bids.

School Building, No. 112, Baltimore Md. Architect, J. E. Laferty, 522 North Charles street, Baltimore, Md. Owners, City of Baltimore, Baltimore, Md. Stone, brick and steel, 3 stories, 75x150 feet, slag roof, cement and pine floors, hollow tile, stone foundations, steam heating, electric lighting, rolled steel sash, fire doors, Bond, hollow tile, metal ceil-

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ings, dampproofing, iron work, iron stairs. Low bidders: J. L. Robinson Co., Baltimore, Md., $322,000, and Standard Const. Co., 1713 Sansom street, Philadelphia, $329,000.

School Building, No. 64, Garrison and Pennhurst avenues, Baltimore, Md. Architects, Mottu & White, Baltimore, Md. Owners, Mayor and City Council of Baltimore, Baltimore, Md. Concrete, brick, terra cotta and steel, 1 story, 155x87 feet, Carey roof, maple floors, metal lath, metal ceilings, waterproofing, iron work, bond, rolled steel sash, marble work, electric light, steam heating, stone foundations. Lowest bid submitted by Chas. L. Stockhausen Co., Water and Gay streets, Baltimore, Md., $92,885.

Miscellaneous Contracts Awarded

Stable, Vandever and Coates streets, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Radcliffe Baking Co., Trenton, N. J. Brick, 1½ stories, 30x95 feet, slag roof, concrete floors. Contract awarded to J. E. Healey & Sons, Wilmington, Del.

Residence (alts. and add.), Park Drive, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, J. C. Skelley, on premises. Brick, 2 stories, general interior and exterior alterations. Contract awarded to W. D. Haddock, Wilmington, Del.

Office Building, Mercer and Calvert streets, Baltimore, Md. Architects, Wyatt & Nolting, Keyser Building, Baltimore, Md. Cons. Engr., Herman F. Doeleman, Baltimore, Md. Owners, U. S. Fidelity and Guaranty Company, on premises. Brick, steel and concrete, limestone front, 3 stories, 40x113 feet, provision to be made for 9 additional stories, slag roof, cement, rezelite, tile, marble and terrazzo floors, metal lath, waterproofing, dampproofing, iron work, iron stairs, hollow metal doors, rolled steel sash and skylights, hollow metal sash, concrete foundations (heating, electric work and elevators reserved). Contract awarded to Geo. Dose Eng. Co., 43 West Twenty-seventh street, New York City.

Proposals

INVITATIONS FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Oct. 25, 1920. Sealed Proposals will be opened in this office at 3 P. M., Sovember 16, 1920, for new mezzanine floors, etc., in the United States Post Office building at Allentown, Pa. Drawings and specifications may be obtained from the Custodian of the building or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 20, 1920. Sealed Proposals will be received separately, for the different materials and for labor by the different trades, and opened in this office at 3 P. M., November 18, 1920, for the construction of the United States Post Office at Athens, Tenn. Materials required will include concrete, reinforcing metal, stone, brick, miscellaneous iron and steel, composition roofing, dampproofing, sheet metal, plastering, interior marble, sanitary slate, lumber, mill work, painting, hardware, plumbing, heating, electric work, etc., in accordance with drawings, specifications, and bills of quantities attached thereto, copies of which may be obtained from the Custodian of the site at Athens, Tenn., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 908)

these lots is definitely a waste and every builder should be alert to encourage the construction of a building which will have value in years to come rather than one which must be abandoned before many years.

In many industrial towns signs of real estate activity may be seen on every hand, and on many subdivisions where restrictions are not too drastic small shacks will be seen under construction where it would be far more advisable to expend the same amount of money in building a small unit of a future house, or in building a garage which will ultimately be used for such purpose when the home is constructed. The use of a garage for a temprary home is increasing not only among industrial employes, but among persons who normally could afford much better living conditions. Instances are not uncommon where two and three-car garages are constructed for use as comfortable living quarters to be occupied by the family until such time as building and mortgage money conditions are more favorable to building permanent homes.

Transportation for building materials may be had where buildings are against an emergency. Dr. J. T. Duryea, chairman of the joint committee of railroad and construction industry representatives, formed at the suggestion of the Calder committee, has issued the following:

Any construction work of a nature essential to public welfare, such as houses, schools, hospitals, etc., which cannot be completed because of inability to secure transportation for building materials from various points, may be relieved by reporting the full facts to the joint committee. A description of the project should be made, together with statement of point of origin, shipper and kind of materials to be transported. The committee will then take the question up with the carriers and expedite delivery. It should be understood that recourse to the joint committee should be had only when the ordinary routine of railroad business has failed to accomplish the desired results

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and the railroads plead inability to furnish equipment.

This joint committee has offices at 29 West 39th Street, Room 1605, New York City.

A wire from John F. Walsh, chairman of the transportation committee of the National Association of Builders' Exchanges, says that present conditions are encouraging in that railroad officials, when shown the emergency character of a project, are doing their best to furnish such transportation facilities as will meet the builders' needs. Where local railroad representatives do not get action an appeal to the joint committee mentioned above, or directly to the Calder committee in New York, is a sure way of getting action.—*American Contractor.*

PRIVATE ALARM SYSTEMS

BY F. A. RAYMOND

During the past years private alarm systems have become an important and valuable feature of fire protection. The first factory alarm systems were mechanical or electrical devices connected to automatic sprinkler systems to give notice of a water flow, and presumably of fire. These were often connected only to a gong on the outside of the protected building, or to a bell in the office or nearby residence of an employer. When paid firemen were appointed the circuits were extended and these bells were installed in the nearest fire stations.

Somewhat later, about 1880 to 1885, various types of automatic or thermostatic alarms were introduced, which were operated by heat in the same manner as a sprinkler head. These exhibited numerous defects and were mainly operated on open electrical circuits; they caused so many false alarms and were so often out of order as to become largely discredited and were little used outside of the larger cities. In recent years improved types of thermostats have been developed, which are reliable; their use is now increasing.

The next development was the combination watch and fire alarm service now generally available in the larger cities and many others of over 50,000. This is usually maintained by the American District Telegraph Company or its subsidiaries, since they have a messenger service and central telegraph offices as a nucleus on which to build. This system has been found valuable to "watch the watchman" and to provide him, or the occupants at such hours as the plant is in operation, with a convenient and reliable means of transmitting fire alarms. It is especially valuable in assuring owners that the watchman will indeed be on duty and able to discover fires in the incipient stage, during those hours, when otherwise they would gain headway and get beyond control before the fire department would be called.

SPRINKLER ALARMS

In conjunction with the fire and watch service it was found desirable to institute more reliable sprinkler alarm service; this has been developed into a complete and reliable system, which gives distinctive signals for water flows and for the various troubles incident to the operation of automatic sprinklers, such as high and low water in tanks, high or low pressure in pressure tanks or dry pipes, high or low temperature in tanks, leaks, and closing or opening of gate valves. On account of the expense of maintainance of the central station, this system is only installed where a number of sprinkler equipments or a night watch and a fire alarm service in connection produce sufficient revenue to make it commercially practicable.

Loss of life in factory fires in recent years showed that something more was needed than the sending in of alarms to the fire department, so in 1916 the New York State Department of Labor, followed in 1917 by New Jersey, issued requirements for alarm systems in factories. These systems are designed primarily to alarm the occupants of factories promptly upon the discovery of fires in any part of the establishment and to give them a chance to escape before the fire gains headway. The field opened to manufacturers through the operations of these laws has given a great impetus to the fire alarm art as regards interior alarm systems and numerous improvements have resulted.

It is possible now to purchase reliable interior fire alarm devices and systems and also to secure reliable maintenance. It has been found that good maintenance is just as necessary as good material and proper original installations.

For buildings equipped with automatic sprinklers, the sprinkler supervisory and valve alarm service is best adapted. There will be manual fire alarm boxes in connection with such systems, so that alarms may be transmitted at once if discovered before the sprinkler operates.

THERMOSTATIC SYSTEMS FOR MILLS

For buildings such as warehouses, grain mills, storages, or any place where rooms may be unoccupied at times, as in hotels, thermostatic alarm systems are desirable. These are of greatest advantage in non-sprinklered buildings, since the sprinklers themselves are thermostatic alarms.

Manual fire alarm boxes are installed in connection with these systems also.

For buildings where night watchmen are employed, the combined night watch and fire alarm signal systems are desirable. These are much better than the watchman's clocks, since to give approximate equivalent fire alarm service with the clocks there must be an interior alarm system also, but even the watchmen are not under constant supervision. Over Sundays and holidays there may be an intervals of forty-two to sixty-six hours during which there is no check upon the action of the watchmen.

It is generally recognized that the most satisfactory method of operating these interior fire alarm systems is through an approved central station, with direct connection to the fire department or fire alarm headquarters and to the salvage corps. In some cases this central station may be operated by the protected establishment or by a group of establishments or may be operated by the municipality in conjunction with the public fire alarm service, but generally it is operated by a company whose attention is given solely to good operation and maintenance.

In buildings where it is necessary to warn the occupants, so they may escape, in addition to the means of transmission to the fire department, there must be local sounding devices. These buildings include factories, hotels, department stores, hospitals, and similar institutions. Ingenious devices have now been perfected for accomplishing all of the various functions above described.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.

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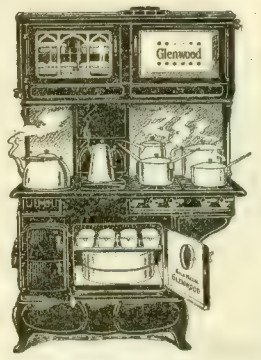
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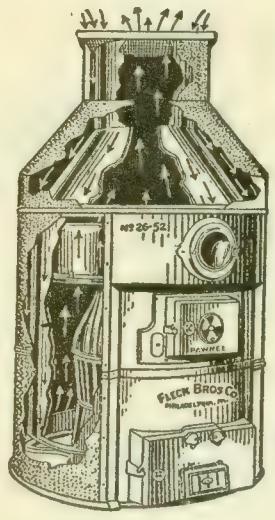


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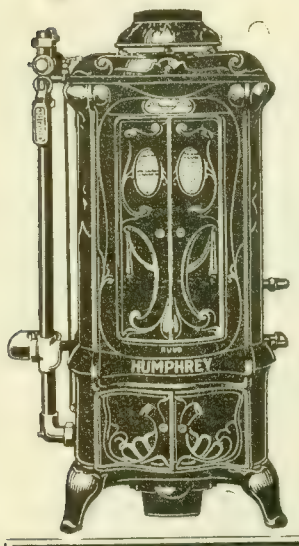
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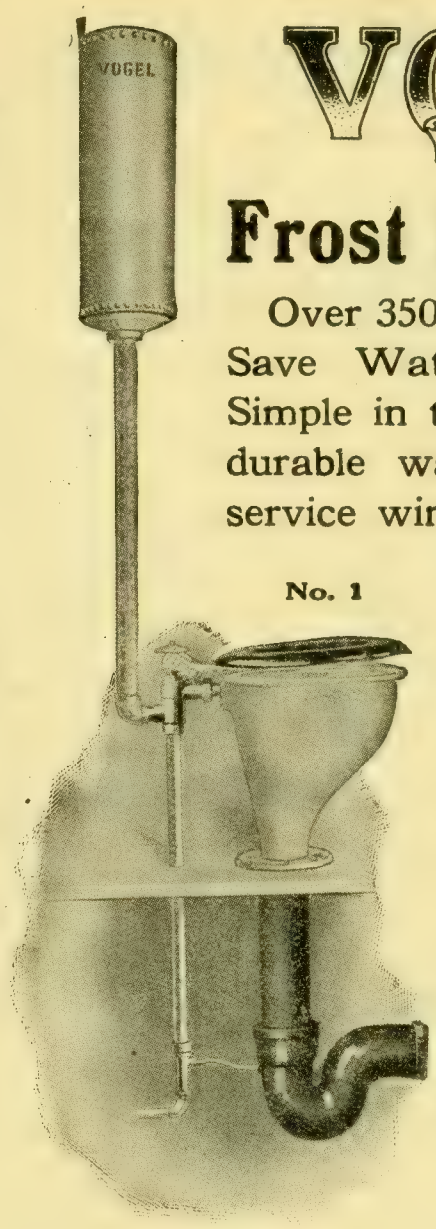
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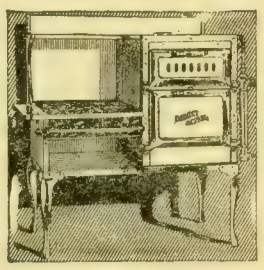


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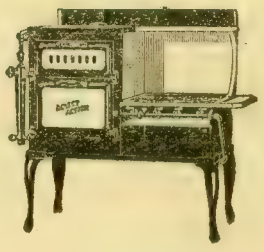
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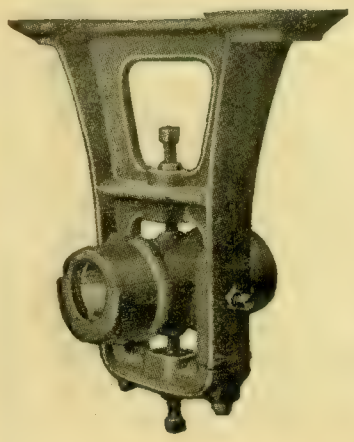
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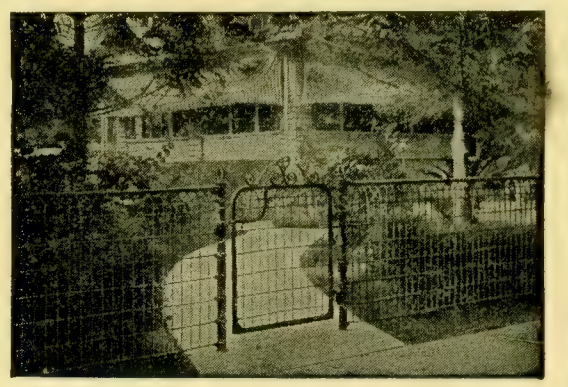
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
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As The Editor Sees It

THE housing problem in America, today, has been so much discussed that it would seem impossible to say anything new on the subject. At a recent meeting of the National Organization of Commercial Organization Secretaries, however, F. Roger Miller, General Secretary, Chamber of Commerce, Macon, Ga., presented some new phases of the housing problem and drew some interesting and thought stirring conclusions regarding the situation. Mr. Miller began his address with the same words with which we began our editorial of last week.

"The United States is the only great nation of the civilized world that has ignored housing as a national problem. Today, he continued, we are paying the penalty for neglect in a famine of homes and in resulting economic disorders that threaten the life of the Republic.

The condition is not an outcome of the World War, as many have been led to believe, but has been steadily developing for years. It dates back to the time when we forgot the ideals of our forefathers, and departed from the fundamentals upon which the Nation was established.

We entered the war to "make the world safe for democracy." Today, after two years of peace, we find ourselves confronted with the problem of making democracy safe for Americans.

After untold waste of time, money and effort, we are beginning to see that housing affects not only the progress, but the welfare of our Nation, and that its solution demands the best thought and effort of which all the constructive forces of America are capable. After years of intensive industrial promotion, we are beginning to realize that unassimilated industries are community liabilities that lead to civic bankruptcy.

Fifty years ago an average of 101 families occupied one hundred homes. Thirty years ago the average was 110 families, and ten years ago 115 families. Today the ratio is 124 families for every one hundred dwellings.

The urban population of the United States in 1910 was 46 per cent. of the whole and its rate of increase three times that of the rural population. The 1920 census shows over 50 per cent. of our population living in urban communities and more than one-fifth of the total population is concentrated in thirty-three metropolitan areas.

Only 20,000 new houses were built in 1918. Twenty times the number were needed. In 1919 only seventy thousand new dwellings were erected. Meanwhile weddings continued at the rate of 1,040,000 a year, and the demand for homes exceeded by far the supply available and in prospect.

Building costs have increased from eighty to a hundred and fifty per cent., varying in different localities. Enormous deficits have accumulated in the production of brick, lumber and cement. Tranportation costs have increased by more than 35 per cent. and one-fourth of the annual tonnage is building material. We consume lumber three times as fast as we produce it, and in less than fifty years our lumber shortage will become a lumber famine. Meanwhile, our deficit in building has grown 140 per cent. in seven years.

Today, with numerous local housing projects under way, we are still falling farther and farther behind in the national program. Our normal increase in demand this year calls for the construction of 1,250,000 dwellings, and if this number were provided, the shortage which became acute two years ago would remain unsupplied. A net return to the pre-war average of 115 families per 100 homes would require the erection of 3,340,000.

The percentage of home ownership in the United States has been steadily declining for more than fifty years. Of all the homes in America in 1890, 48 per cent. were owned. Ten years later the percentage was 46; in 1910 the percentage was 45. The most conservative estimate available places the percentage for 1920 at 42, which, if correct, indicates a greater reduction than has been recorded for any previous decade. There is an impression in some quarters that the decrease in home ownership has been re-

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stricted to the cities and towns. This theory, however, is not supported by facts. In 1890, 66 per cent. of our rural population owned homes; in 1900 the percentage was 64; in 1910 the percentage was 62 and the estimate for 1920 is 59 per cent.

Out of every one hundred Americans, sixty are discontented. Three widely separated and independent authorities have set this figure at the ratio of unrest in the United States in amazing and significant statements, simultaneously issued. None have consulted the other in arriving at this conclusion.

Says the Military: Sixty per cent. of the American people may be classed as Forces of Disorder or Forces of Discontent. Lashed by unrest, nursing grievances vague and half understood or bitterly real, and Forces of Disorder, reinforced by the drifting Forces of Discontent are whispering revolution and the overthrow of the Government.

Says a most eminent statistician: Sixty per cent. of our population may be classified as galley slaves rankling under the burden of drudgery borne without apparent reward or progress, resentful, sullen, almost hopeless!

Says the Church: Sixty per cent. of all America may be conservatively reckoned as lacking in religion and the qualities that make for higher citizenship.

To the thinker—and every man is become a thinker in these solemn times—There is startling coincidentalism in these figures.

What is the matter with the sixty per cent?

What do more than half of the people of the United States lack which is so vital that the absence of it causes them to drift into the evil influence of Disorder and Discontent? What is this desire which is so keen that the urge of it is coloring the land red with the threat of revolution? Do the sixty per cent. themselves know what they want?

Is there anything pertinent for the thinkers of America in the fact that sixty per cent. of the population of this country do not own their own homes? That the ratio of our people who drift from shack to shack, from cheap cottage to dismal flat, without anchorage, without ties in the community or responsibility of property—is sixty per cent?

We are no longer a nation of home owners. We are become a generation of drifters, renters, floaters—sixty per cent of us! Six out of every ten uprooted from the soil, having no claim upon the land, rattle about loosely, a prey to every wandering wind. And then we ask, what is the matter with the country!

Later in the Southern colony of Georgia there was much discontent. And here, too, the core of the question lay in the ownership of land. No man was permitted to own more than fifty acres of land and this he could not sell or rent or divide among his children. There was no inducement for the improvement of property, no community responsibility; and this was in 1735. In Pennsylvania and New Jersey—most swiftly populated of the colonies—the people were attracted by the fact that in these territories, in 1685, "even a poor man could have a farm of his own." Yet the census of 1910 showed that more than sixty-five per cent. of the homes in those states were rented.

The old pilgrims were wiser than that. After those bitter winters at Plymouth colony, when the bleak Massachusetts hills were sown with frozen graves, when mutiny and discontent soured the hopeful hearts of the people, the old historian records that "in 1624 each family received a small allotment of land for its own. And after that there was plenty to eat in Plymouth!" Plenty to eat and peace in Plymouth because each family owned its own home.

The decade from 1910 shows the greatest decrease in home ownership. Also that period records the keenest restlessness, the bitterest discontent, the boldest and most flagrant defiance of authority of any period of our national life. Are we arriving at the source of the sore which embitters the blood of the sixty per cent. when we prove by Uncle Sam's dry statistics that the greater portion of these malcontents own nothing, hold nothing, have no roots in the ground, no anchorage in their community — no homes? It begins to look that way.

The unrest that is shaking the country like a sickening sort of ague has been patly named "industrial" and the term sticks as pat terms are apt to do. Yet it is actually no more industrial than commercial, no more commercial than professional—or agricultural. Men who are studying the situation deeply are beginning to argue that it is fundamental —that it is a blight eating to the core, its arid decay destroying continually more and more of the precious tissue of our independence. And what are the fundamental things? What are the pillars upon which the wise old fathers of Plymouth and St. Augustine and Fort Dearborn built this land?

Home first! And after that Liberty and Opportunity, and Religion. Reformers have consumed reams of priceless white paper haranguing the multitudes concerning American liberties and opportunities and upon religion; but the nation we have built is a four-cornered creation—and the chief corner, the Home. is more than sixty per cent. gone. No wonder it topples. Any four-square thing will topple when you compel it to stand upon three legs.

There are many sincere and serious persons who will question the relative application of my figures. They will argue that because sixty per cent. of the people live in property which they do not own, it does not follow that that sixty per cent. constitute the ratio of discontent in the United States. And they will point, in confirmation of the argu-

(Continued on Page 935.)

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Private Dining Room (alts.), 1337 Arch street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, Strand Hotel, on premises. Carpentry, mill work, tile work, metal lath, painting, glazing, hardware, heating work, iron work, Bond, electric work. Architects have received bids.

Warehouse, Forty-ninth and Market streets, Philadelphia. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owners, Chilton Company, Forty-ninth and Market streets, Philadelphia. Brick, 1 story, 32x77 feet, slag roof, cement floor, electric lighting. Plans in progress. Architects will build and will take sub-bids.

Residence, Germantown, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Joseph F. Bege, 85 East Wister street, Germantown, Philadelphia. Stone, 3 stories, 20x50 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress. Owner will take bids in one week.

Woodworking Building, Forty-second and Woodland avenue, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owners, Morris Truck & Wheel Co., Seventy-fifth and Island road, Philadelphia. Brick and steel, 1 story, 98x50 feet, slag roof, concrete floors, roof ventilators, Bond, rolled steel sash, stone foundations (heating, electric lighting and plumbing reserved). Architects have received bids.

Church and Sunday School, Fifty-sixth and Willows avenue, Philadelphia. Architects, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Sherwood United Presbyterian Church, care of Rev. D. C. Fulton, 5541 Willows avenue, Chairman Building Committee, Robert Jensen, 5714 Hatfield avenue, Philadelphia. Stone, 1½ stories, 63x69 feet, slate and slag roof, pine floors, stone foundations, steam heating, electric lighting. Architect taking revised bids due November 11th. Thomas C. Trafford, 1613 Sansom street; Robert E. Lamb Co., 843 North Nineteenth street, and Penn Const. & Eng. Co., 3840 Spring Garden street, are figuring.

Lumber Storehouse, Frankford Arsenal, Philadelphia. Architect, private plans. Owner, United States Government, care of Major J. Lumsden, Frankford Arsenal, Philadelphia. Brick and steel, 1 story, 242x80 feet, built-up roof, cement floors, stone foundations, Bond, iron work. Lowest bidders: M. Melody & Son, 1322 Race street, $26,700; F. A. Foster Co., 43 South Seventeenth street, $29,297.

Store Building (alts.), 202-04 North Broad street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, General Realty Co., Stock Exchange Building, Philadelphia. Steel work, concrete and pine floors, metal lath, plastering, waterproofing, iron work, slag roof, painting. Architect taking bids due November 11th. Mitchell Bros., 2125 Race street; A. R. Raff Cont. Co., 1635 Thompson street; Tourison & Tourison, 1011 Chestnut street; W. O. Springer, 2004 Naudain street; Thomas C. Trafford, 1613 Sansom street; J. Sims Wilson Co., 1125 Brown street; J. M. Yardley, 1713 Sansom street, and Standard Const. Co., 1713 Sansom street, are figuring.

Reconstruction of Fire Damage, 1406-08-10 Vine street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, General Realty Co., Stock Exchange Building, Philadelphia. Lessees, Crown Auto Paint Co., on premises. General reconstruction. Plans in progress.

Storage Building (alts. and add.), 415 South Second street, Philadelphia, $3,500. Architect, private plans. Owners, Louis Elgart, 269 South Third street, Philadelphia. Brick, second story add., 22x70 feet, slag roof, cement floor. Owner will build.

Grading Bridge Street Yard, Constructing Abutments, Retaining Walls and Column Foundations, Frankford Elevated, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, care of William S. Twining, Director, 1211 Chestnut street, Philadelphia. Iron, steel, concrete work, etc. Owners taking bids due November 11th. F. J. Boas, 201 North Broad street; E. C. Fish, Real Estate Trust Building; Snare & Triest, Pennsylvania Building; Brown-King Const. Co., Commercial Trust Building; William Mundy, 228 South Alder street; Keystone State Const. Co., Franklin Bank Building; Edwin H. Vare, 1120 Race street; F. G. Meyers & Co., 1218 Chestnut street; James McGraw Co., Commercial Trust Building; H. C. Ambler, 3717 Old York road; John McCoole & Co., 112 Albanus street; Edw. Fay & Son, 2 South Mole street; Robert E. Lamb & Co., 843 North Nineteenth street; D. Henry Kyle, Chew street and Chelten avenue; George B. Clopp, 3717 Old York road; J. J. McHugh, 1430 South Penn Square; W. W. Anstine & Co., 1218 Filbert street; W. H. Yetman, Lincoln Building; Thomas Connor, 3329 North Fifth street; Standard Const. Co., 1713 Sansom street, and O. B. S. Eng. Co., 918 Spruce street, are figuring.

Manufacturing Building (fire repairs), 413-17 South Fifth street, $4,000. Architect, private plans. Owners, Robert Tarlo, 5021 North Twelfth street, Philadelphia. Carpentry, mill work. Owner will build.

Garage, 3804-06 Delancey street, Philadelphia, $4,000. Architect, private plans. Owner, A. Liebovitz, 4045 Baltimore avenue, Philadelphia. Brick, 1 story, 50x110½ feet, slag roof, cement floor, electric lighting. Owner will build.

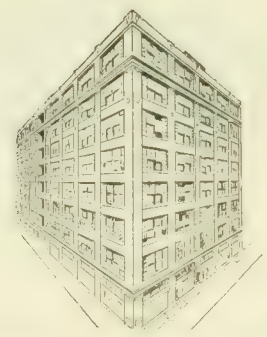
Manufacturing Building (add.), Milnor street, South of Bleigh street. Architect, private plans. Owner, L. Martin Co., on premises. Brick, 1 story, 47x27x53½ feet, slag roof, cement boor. Owner will build.

Garage, Bellfield avenue, North of Penn street, Philadelphia, $2,000. Architect, private plans. Owner, William C. Wetherstine, 124 East Upsal street, Philadelphia. Brick, 1 story, 17½x90 feet, slag roof, cement floor, electric lighting. Owner will build.

Store Building (alts. and add.), Southeast Corner Twelfth and Walnut streets. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, George Kelly Dept. Store, care of Continental Equitable Title & Trust Co., Trustees, Twelfth and Chestnut streets, Philadelphia. Brick work, sheet iron work, metal doors and sash, carpentry, mill work, terrazzo work, plumbing, glazing, metal lath. Architect has received revised bids.

Residence, Germantown, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Joseph F. Bege, 85 E. Wister street, Germantown, Philadelphia. Stone, 3 stories, 20x50 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Architect taking bids, due November 22nd. E. Allen Reeves,

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Abington, Pa.; Wm. H. Eddleman & Son, 453 Green Lane, and Elmer Cuthbertson, 334 Roxborough avenue, both of Roxborough, Philadelphia; Specht & Sperry, Heed Building, and Lewis Georgette, Wakefield and Bringhurst streets, Philadelphia, are figuring.

Club Building (alts.), 1411 Arch street, Philadelphia. Architect, Mahlon H. Dickinson, Columbia Building, Tenth and Columbia avenue. Owners, Philopatrian Literary Institute, on premises. Roof repairs, carpentry, mill work, parquetry floors, heating repairs, electric work, marble work, cut stone work. Architect taking bids, due November 15th. Ketcham & McQuade, 1029 Brown street, are figuring.

Store Building (alts.), 443 South street, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Stores Co., 44 West Eighteenth street, New York City. Carpentry, mill work, plastering, metal ceilings, heating alterations, electric work, cement work, painting, glazing. Architect taking bids. Pierce-Henon, Bulletin Building, Philadelphia, are figuring.

Hospital (add.), 410 Chestnut street, Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Marine Hospital, care of Dr. Collins, 410 Chestnut street, Philadelphia. Owners taking bids, due November 15th. H. Melody & Son, 1233 Race street, and E. C. Durell, 1713 North Twenty-fourth street, additional bidders.

Residences (6), Second and Clarkson streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, August Mignatti, 321 Duncannon street, Philadelphia. Stone and brick, 2 stories, 14x40 feet, slag roof, pine floors, pipeless heater, electric lighting. Owner is taking sub-bids.

Garage, Second and Olney avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, August Mignatti, 321 Duncannon street, Philadelphia. Stone, 1 story, 60r100 feet, slag roof, cement floors, stone foundations, electric lighting. Owner is taking sub-bids.

Garage, Twenty-first and Berks streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Waldow, care of A. Sonnenfeld, 707 Walnut street, Philadelphia. Brick, 1 and 2 stories, 75x110 feet, slag roof, cement and pine floors, stone foundations, steam heating, electric lighting, fire doors, hollow metal skylights. Owner is taking sub-bids.

Manufacturing Building, 462-66 North Eighth street, Philadelphia, $45,000. Architects, Curtis & Grindrod, Franklin Building. Owners, S. Rosenau Co., Darien and Nobel streets, Philadelphia. Brick and steel, 2 stories, 63½x130 feet, slag roof, steam heating, electric lighting, mill construction, steel sash. Curtis & Grindrod Co., Franklin Building, will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

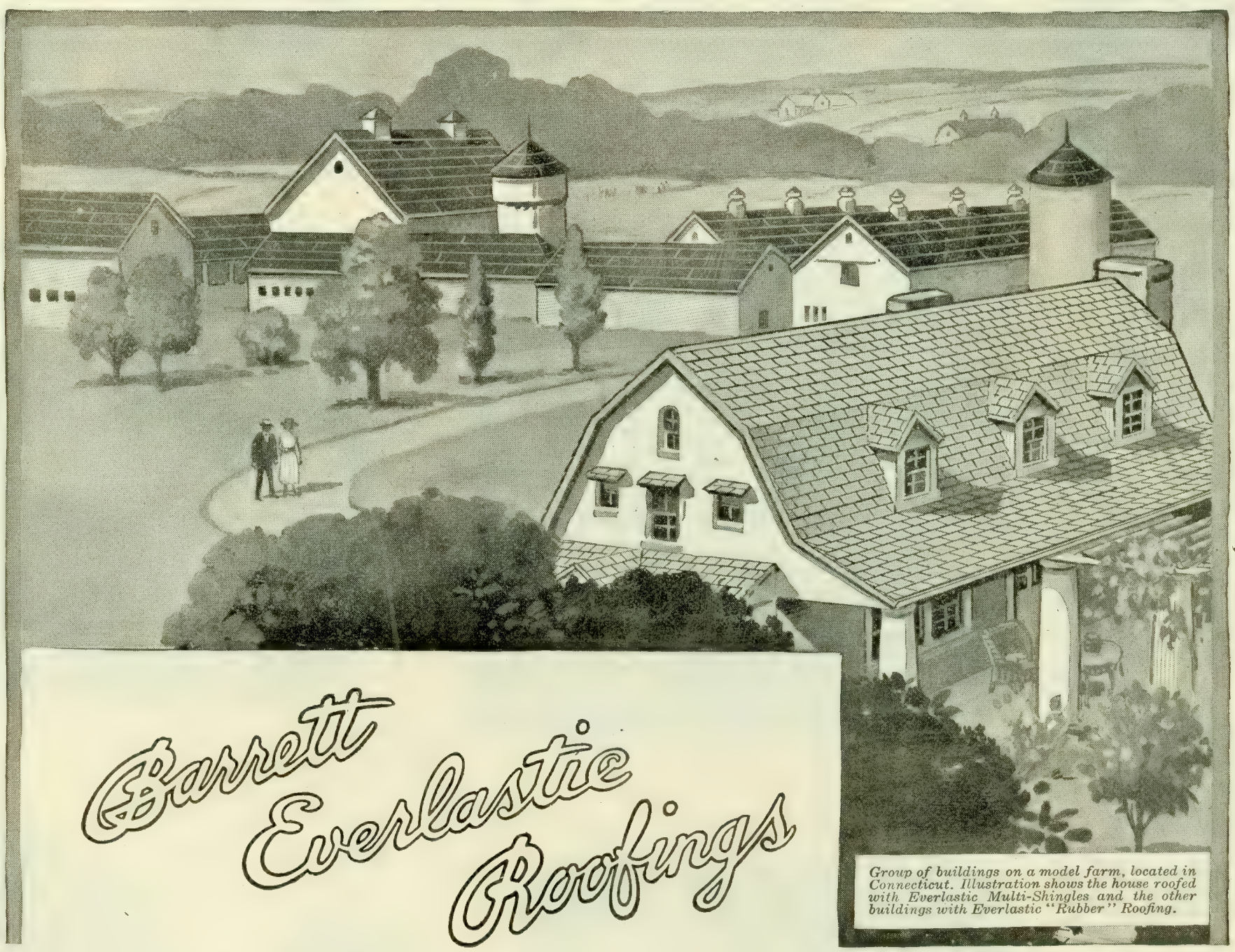
Building (alts.), 232 South Front street, Philadelphia. Architect, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, Gibson Distilling Co., on premises. New brick wall, steel work, metal lath, plastering, pine floors, tin covered doors, marble and tile floors, oak floors, metal doors and windows, roof repairs, iron work (plumbing, heating and electric work reserved). Contract awarded to Conneen Const. Co., 10 South Eighteenth street, Philadelphia.

Mill Building (alts.), Howard and York streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Estate of Thomas L. Leedom, on premises. Strengthening floors, new brick wall, iron work, painting of iron work. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

Mill Building, Southeast Corner Jasper and Butler streets, Frankford Junction, Philadelphia. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owners, Belmont Packing & Rubber Co., 133 North Second street, Philadelphia. Brick, 1 story, 130x119 feet, slag roof, concrete floors, rolled steel sash, hollow metal skylights, stone foundations (heating and electric work reserved). Contract awarded to George Kessler Cont. Co., Drexel Building, Philadelphia.

Building (alts.), Thirtieth and Master streets, Philadelphia, $9,000. Architect, pri-

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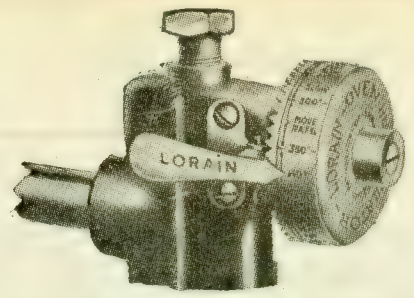
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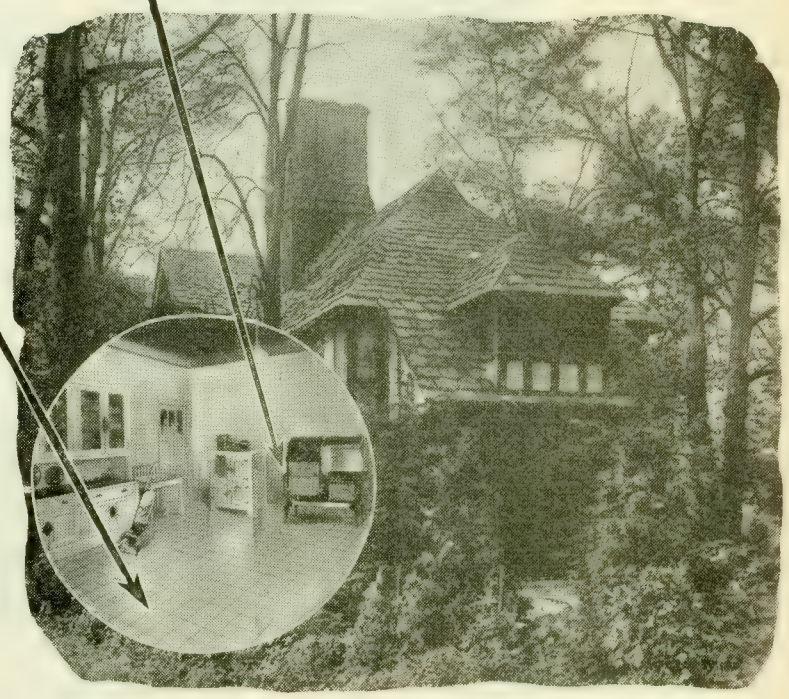
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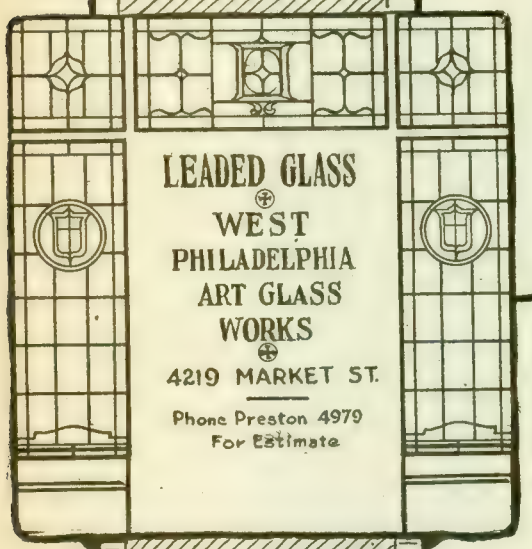
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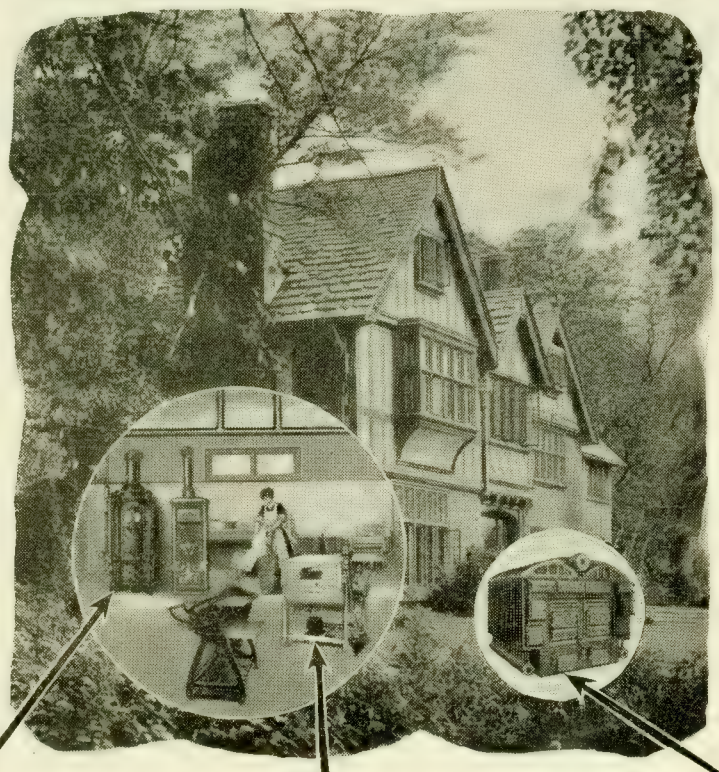
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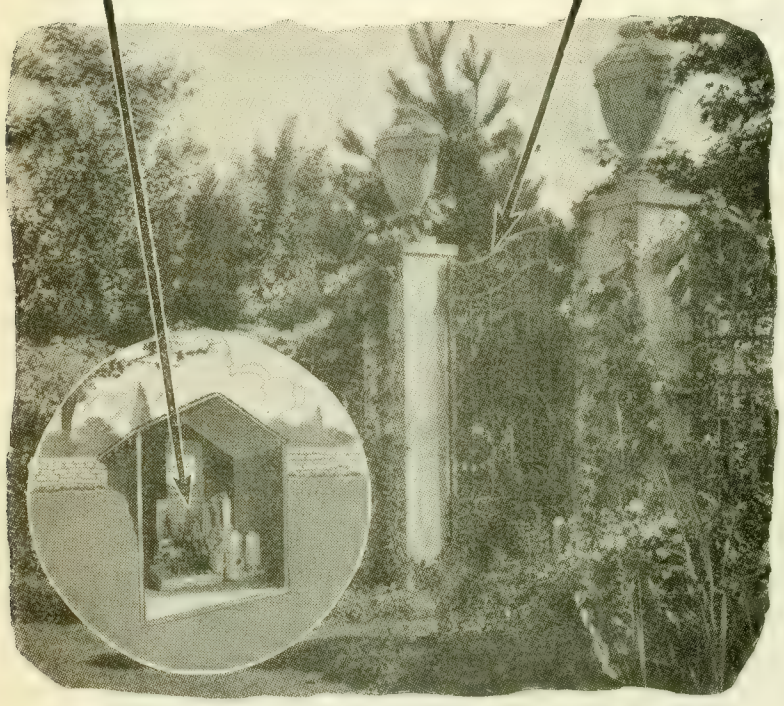
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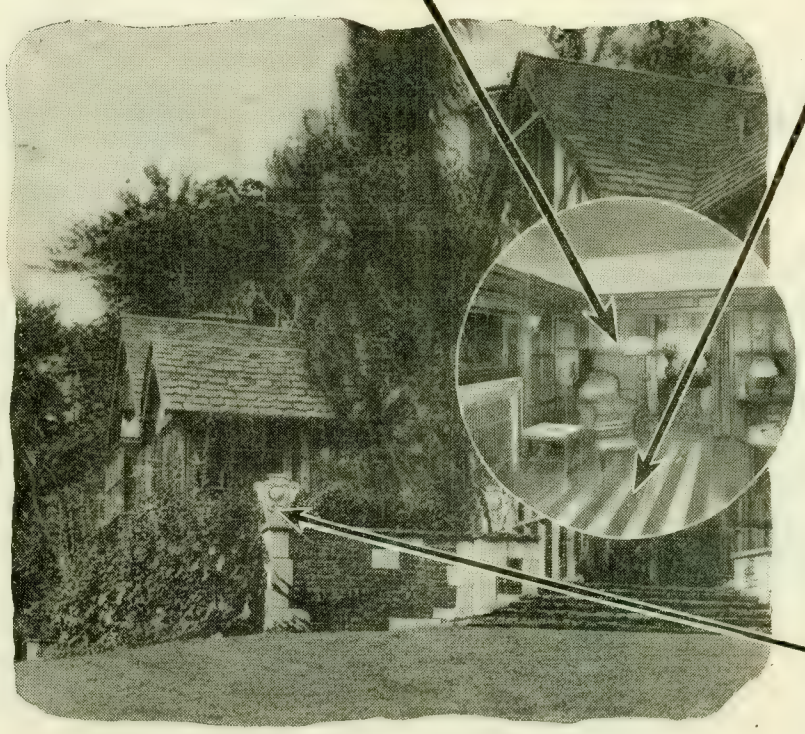
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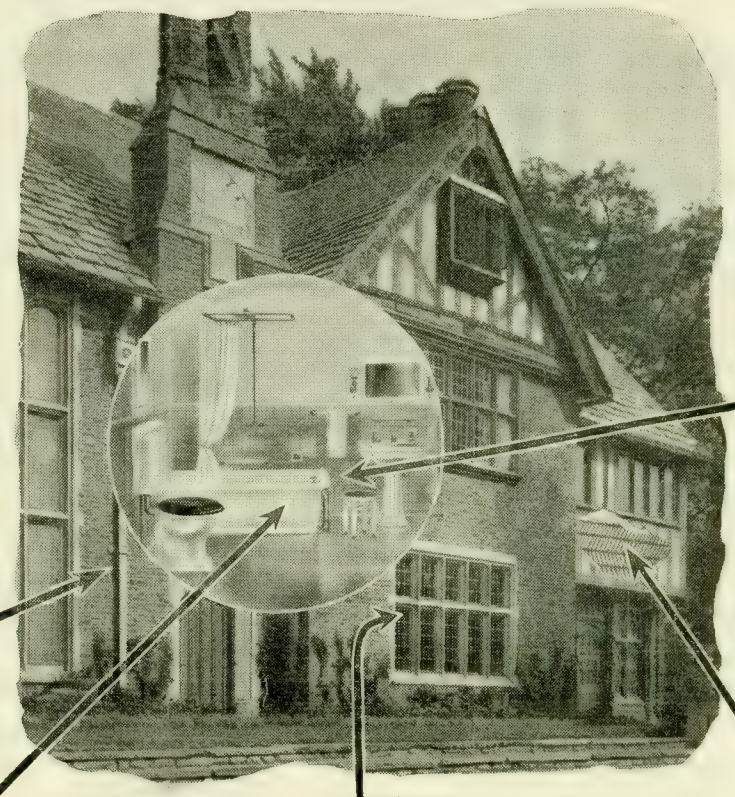


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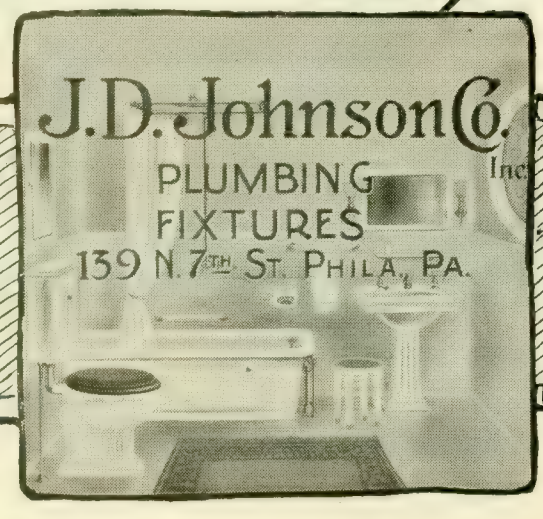


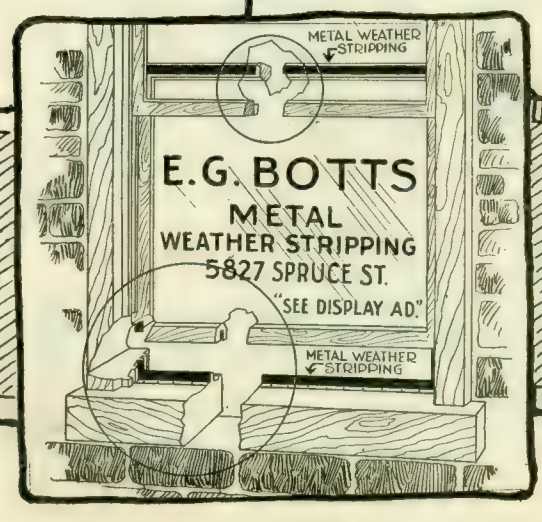




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vate plans. Owners, Walter Milling Co., on premises. New concrete floors. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Dye House (add.), Southeast Corner Wheatsheaf lane and Coral street, $40,000. Architect, private plans. Owners, Hulton Dyeing Co., 3819 Frankford avenue, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric lighting, hollow metal skylights, ventilators. Contract awarded to F. Crompton & Co., 4614 Oakland street, Philadelphia.

Office and Publishing House (alts. and add.), 2047 Arch street, $10,000. Architect, private plans. Owners, Hall-Mack Publishing Co., 1013 Arch street, Philadelphia. Brick, 4 stories, 11x17 feet, slag roof, general alterations. Contract awarded to James C. Driscoll Co., Southwest Corner Seventeenth and Sansom streets, Philadelphia.

Hospital (add.), 707-09 Green street, Philadelphia, $10,000. Architect, Durham Bros., 26 South Fifteenth street, Philadelphia. Owner, Dr. Joseph W. Anderson, on premises. Brick, 2 stories, 17½x42½ feet, slag roof, hot water heating, electric lighting, pine floors, plastering. Contract awarded to Archibald McTavish Co., 1515 Pine street.

Warehouse (fire repairs), 266-70 North American street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Sylvester S. Garrett, 259 South Third street, Philadelphia. Brick, 6 stories, 50x80 feet, slag roof, stone foundations, iron work, carpentry, mill work, pine floors. Contract awarded to Clayton Lofland, Water and Race streets, Philadelphia.

Garage, 707-11 Tasker street, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, A. Pesteoe, 1625 South Eighth street, Philadelphia. Brick, 2 stories, 52x121 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash. Contract awarded to Frank Kaiser, 1517 South Sixth street, Philadelphia.

Store Building (alts.), Northwest Corner Fifty-second and Market streets, $20,000. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Retail Candy Stores Co., 44 West Eighteenth street, New York City. Carpentry, mill work, painting, glazing, hardwood floors, plumbing, steel and iron work, sheet metal work, kalamein doors, plastering, pine floors. Contract awarded to J. D. Fisher, 5424 Thompson street, Philadelphia.

Store and Offices (add.), 1732 Ludlow street, Philadelphia, $20,000. Architect, private plans. Owner, F. P. Mellon Estate, 1712-14 Ludlow street, Philadelphia. Brick, 3 stories, 32x55 feet, 1 story, 32x20 feet, slag roof, pine floors, electric lighting, steam heating. Contract awarded to George C. Dougherty, 1725 Ludlow street, Philadelphia.

Store and Apartments (alts. and add.), 119 South Eighteenth street, Philadelphia, $10,000. Architect, private plans. Owner, William Webers Sons, 52 North Thirteenth street, Philadelphia. Brick, third story add., 12x34 feet, slag roof, hot water heating, electric lighting, pine floors, stone work, tile work. Contract awarded to Frank G. English, 1608 North Carlisle street, Philadelphia.

Residence (alts. and add.), 125 New street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. General alterations and additions. Contract awarded to B. Kligerman, 1336 North Sixth street, Philadelphia.

Hall (alts. and add.), northeast corner of Eighth and Fairmount avenue, Philadelphia, $27,000. Architect, private plans. Owners, Slovak Timber Men's Union, 631 N. Franklin street, Philadelphia. Brick, 2 stories, 43x72 feet, slag roof, steam heating, electric

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lighting, pine floors, plumbing. Contract awarded to B. H. Piper, 509 North Ninth street, Philadelphia.

Warehouse and Garage, 1240 Bainbridge street and 1240 Kater street, $3,600. Architect, Wm. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Jos. W. Salus, Thirteenth and South streets, Philadelphia. Brick, 1 story, 14½x56 feet, and 1 story, 17½x38 feet, slag roof, electric lighting, pine and cement floors. Contract awarded to Henry P. Schneider, 3713 Old York Road.

PENNSYLVANIA
Construction News

School and Hall, Scranton, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, care of architect. Frame, stucco, steel, 2 stories, 60x120 feet, concrete foundations, slag and tile roof, pine floors, vapor heat, electric light, tile and marble work, metal lath, asbestos board, plumbing, school equipment, electric wiring. Preliminary plans in progress.

Court House, Scranton, Pa., $200,000. Architects, F. A. & J. Nelson, Connell Building, Scranton, Pa. Owner, Lackawanna Co., care of Mr. Louis, Court House, Scranton. Brick. Preliminary plans in progress.

Garage (add. and alt.), Scranton, Pa. Architect, L. Reisman, Miller Building, Scranton, Pa. Owner, care of architect. Brick and steel, 1 story, 75x50 feet, slag roof, concrete floors, electric light, hollow metal sash. Plans in progress.

Restaurant (add. and alt.), Drinker street, Scranton, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, J. H. Stein, on premises. Brick and steel, 2 stories, 120x35 feet, slag roof, maple floors, electric light, tile and marble work, interior alterations, hollow metal skylights, fire doors, metal ceilings, fire escapes, galvanized iron work, new plumbing. Architect will take bids in one week.

Theatre, Altoona, Pa. Architects, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, Silverman Bros., Altoona, Pa. Brick, stone, steel and terra cotta, 1 story, 200x280 feet. Plans in progress. Too early for details.

School, Plymouth Township, Montgomery County, Pa., $85,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, School District of Plymouth Township, care of Harry P. Allebach, Secretary, Conshohocken, Pa. Brick and stone, 2 stories, stone foundations, slag roof, electric lighting. Plans in progress. Too early for details.

Apartment and Garage, Court street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, F. O. Wolfe, 129 North Eighth street, Allentown, Pa. Brick, 2 stories and basement, 30x104 feet, slag roof, hardwood and concrete floors, electric lighting, tile work (heating reserved). Owner will build.

Store Fronts (5), Luzerne, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Max & E. Freidman, Lu-

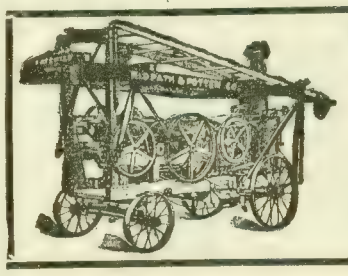


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zerne, Pa. Plate glass, concrete floors, electric light, marble work. Owners taking bids. Behrens & Son and M. Moskowitz, Wilkes-Barre, Pa., are figuring.

Cottage, Harvey's Lake, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Stucco, 2½ stories, 45x39 feet, asbestos shingle roof, hardwood floors, steam heat, electric light. Architect has received bids.

Convent (alts. and add.), Luzerne, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, L. G. Forbe, Luzerne, Pa. Frame, 2 stories, 20x40 feet, shingle roof, pine floors, steam heat, electric light, interior and exterior alterations. Owner is building.

Club House (alt. and add.), Bethlehem, Pa. Architect, Mr. Lovelace, Bethlehem Trust Building, Bethlehem. Owner, care of architect. Brick and stone, 2 stories, 34x64 feet, slate roof, pine floors, electric lighting, metal lath, interior alterations. Plans in progress.

Store and Apartment, 353 Hamilton street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Lewie Epstein, 208 Second street, Allentown, Pa. Brick and part frame, 3 stories and basement, 22x76 feet, concrete foundations, slag roof, hardwood and concrete floors, electric lighting, tile work. Plans in progress. Architect will take bids in two weeks.

Bungalow, Stoddardsville, Monroeville County, Pa. Architect, William F. Price, 136 South Fourth street, Philadelphia. Owner, Dr. Mary Krusel, 235 South Fifteenth street, Philadelphia. Frame, 1½ stories, 18x40 feet, shingle roof, stone or concrete foundations. Preliminary plans in progress.

Sunday School, Market and Center streets, Sunbury, Pa. Architects, George E. Savage & Son, Witherspoon Building, Philadelphia. Owner, First Presbyterian Church, care of Rev. R. C. Aukerman, Sunbury, Pa. Brick, 2 stories, 57x70 feet, slag roof, pine floors, stone foundations, hot water heating, electric lighting, tile work. Architect will be ready for bids in ten days.

School, Clifton Heights, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owners, School District of Clifton Heights, Clifton Heights, Pa. Brick, 2 stories and basement, 90x25 feet, slag roof, pine floors, heating undecided, electric lighting. Plans completed. Owners are ready for bids.

Club House (add.), Lancaster, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Lancaster Country Club, Lancaster, Pa. Brick, 2 stories, 32x40 feet. Preliminary sketches completed.

PENNSYLVANIA
Contracts Awarded

Milk Station (add.), Bryn Mawr Pa. Architect, Wager Fisher, Otis Building, Philadelphia. Owners, Highland Dairies, Bryn Mawr, Pa. Brick, concrete, 2 stories, 25x54 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting. Contract awarded to A. W. Sheniff, 608 Chestnut street, Philadelphia.

Palace Theatre (alts. and add.), Main street, Coatesville, Pa., $30,000. Architect, R. A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, Logges Bros., 258 East Main street, Coatesville, Pa. Brick and steel, 1 story, 40x110 feet, slag roof, cement floors, metal lath, stone foundations, steam heating, electric light, tile work, iron work. Contract awarded to W. R. Beard & Son, Coatesville, Pa.

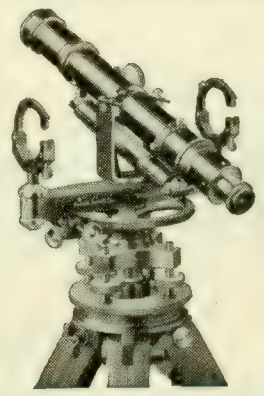
Residence, Parkside avenue, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Mr. E. S. Haldeman, care of architect. Frame, 2 stories, 40x25 feet and extension, concrete foundations, shingle roof, hardwood floors, hot water heating, electric lighting. Contract awarded to Kester & Co., College Heights Co. Office, Allentown, Pa.

Church (alt. and add.), Glenburn, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owners, Episcopal Congregation, Rev. Houghton, on premises. Frame, 1 story, 38x28 feet, stone foundations, shingle roof, pine floors, pipeless heat, electric light, general interior alterations. Contract awarded to Breig Bros., Coal Exchange Building, Scranton, Pa.

Residence (alt. and add.), Clark's Summit, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, T. A. Block, Hotel Jermyn, Scranton, Pa. Frame, 2 stories, irregular size, metal roof, composition floors, new plumbing, general interior alterations. Contract awarded to Stender Bros., Scranton, Pa.

Buildings (2) (add. and alt.) to Store and Apartment, Wilkes-Barre, Pa. Architect, R. H. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, J. Williams, 27 Nicholas street, Wilkes-Barre, Pa. Brick, 1 story, 29x50 feet, oak floors, electric light, tile work, new plumbing, general interior work, electric wiring. Contract awarded to Morris Moskowitz, Wilkes-Barre, Pa.

Power House, Ransom, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Ransom Poor District, care of



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John Gorman, Inkeman, Pa. Brick, reinforced concrete, 1 story, 40x40 feet, concrete foundations and floors, slag roof, electric light. Contract awarded to H. Melander, Wilkes-Barre, Pa.

Store Front (alt. and add.), Scranton, Pa. Architect, L. Reisman, Miller Building, Scranton, Pa. Owner, Samuel Radin, 221 Lackawanna avenue, Scranton, Pa. New front, plate glass, general interior alterations, marble work. Contract awarded to Nashburn-Williams, 119 Meridian street, Scranton, Pa.

Power House, Scranton, Pa. Architects, Davis & Lewis, Union National Bank, Scranton, Pa. Owners, A. J. & P. J. Casey, Hotel Casey, Scranton, Pa. Reinforced concrete, 5 stories, 80x160 feet, slag roof, concrete floors, electric light, hollow metal sash, roof ventilators. Contract awarded to L. T. Stipp, Union Bank Building, Scranton, Pa.

Store (alts.), Wayne, Pa. Architect, private plans. Owners, Rittenhouse Bros., Forty-ninth and Baltimore avenue, Philadelphia. Carpentry, mill work, painting, plastering. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

New Jersey Construction News

Convention Hall, Atlantic City, N. J. Architects, Warren & Wetmore, 16 East Forty-seventh street, New York. Owners, Ritz-Carlton Hotel Co., Atlantic City, N. J. Plans in progress. Too early for details.

Garage, Atlantic Sity, N. J. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, Max Dann, 32 South Tallahassee avenue, Atlantic City, N. J. Hollow tile and stucco, 1 story, 14x22 feet, composition roof, cement floors, concrete foundations, steam heating, electric lighting. Owner is ready for general bids.

Dairy Building (alts.), Atlantic City, N. J. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, Atlantic City, N. J. Architect taking bids due November 15th. W. O. Springer, 2004 Naudain street, Philadelphia, and M. B. Markland, Wilbur Beaumont, and Philip G. Hannum, Atlantic City, N. J., are figuring.

Boiler House (alts.), Trenton, N. J., $10,000. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, New Jersey State Home for Girls, Dr. Harris, on premises. Brick, new boiler, general interior alterations, new smoke stack. Architect has received bids.

Residence (alts.) to Office, 219 North Hanover street, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, J. O. Hunt, Montgomery avenue, Trenton, N. J. Brick, stone front, 3 stories, 25x80 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal lath, interior alterations. Plans in progress.

Church, Paul street, Trenton, N. J. Architect, R. A. Schumann, 932 Lamberton street, Trenton, N. J. Owner, Rev. T. J. Walsh, St. James' Church, 153 North Warren street. Stone, 1 story, 45x100 feet, stone foundations, hardwood floors, electric lighting, tile and marble work. Building by day work, care of architect.

Store, South Broad street, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, W. L. Ruopp, 1200 South Broad street, Trenton, N. J. Brick, 1 story, 40x42 feet, stone foundations, slag roof, pine floors, electric lighting. Architect will be ready for bids this week.

Residence (alts.) to Store Room, Brunswick and Pine streets, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, Red Cross Pharmacy, on premises. Brick, 1 story, 45x120 feet, slag roof, concrete foundations, hardwood floors, vapor heating, electric lighting, tile work. Architect will be ready for bids this week.

Power House (alts. and add.), Vineland, N. J., $21,500. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, Home for Feeble Minded Women, care of William G. Thorne, on premises. Brick, 1 story, 38x64 feet, slag roof, concrete floors, electric light. Architect ready for bids in two weeks.

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New Jersey Contracts Awarded

Bank (alts.), 6 South Broad street, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton, N. J. Owner, Capitol City Trust Co., care of architect. New store front, interior alterations, cork floors, tile, marble and terrazzo work, hollow metal skylights, bank fixtures. Contract awarded to James H. Morris, Trenton, N. J.

Stores (2), 13 Banjora street, Trenton, N. J., $1,000. Architect, private plans. Owner, Alfonse Mararco, Trenton, N. J. Cement block, 1 story, 27x17 feet, tin roof, pine floors, electric lighting. Contract awarded to Samuel Guinotte, Trenton, N. J.

Miscellaneous Construction News

Incinerator Plant, Marine Barracks, Quantico, Va. Architect, private plans. Owner, United States Government, Bureau of Yards and Docks, Washington, D. C. Brick and steel, 1 story, 28x28 feet, composition roof, concrete floors, stone foundations, electric lighting, iron work, 600 feet of water main, 700 feet electric pole line, 500 feet concrete road. Owners taking bids due November 24th. Hughes-Foulkrod Co., Commonwealth Building, are figuring. Deposit of $10.00 required.

Airship Hangar, Boiler House and Generator House, Aberdeen, Md. Architect, private plans. Owners, Construction Service, S. M. C., U. S. A., Washington, D. C. Corrugated iron siding, 1 story, 220x126 feet, 1 story, 28x20 feet, and 1 story, 80x65 feet, asbestos and asphalt roof, concrete floors, metal lath, roof ventilators, iron work, floor hardener, steel and kalamein doors, rolled steel sash, electric lighting, steam heating, stone foundations Owners taking bids due November 20th. Stang & Mitchell, Real Estate Trust Building, Philadelphia, are figuring.

(Continued from Page 924.)

ment, to the thousands of excellent citizens, merchants, professors, clergymen, who occupy rented property and who are ostensibly living the lives of patriotic and exemplary Americans upon the land which they do not own.

This is undoubtedly all true. There can be no sweeping generalities—no painting of a whole people with one broad and democratic brush. I am making no attempt to prove that every one of the sixty per cent. who does not own his home is to be classed either with the Forces of Disorder or the Forces of Discontent. But I do contend that were the aligned forces of the discontented, the drifting, the sullen, the resentful nursers of grievances, and the rabid revolutionists of this country ranked and arrayed for review, few home owners would be found in those ranks.

Home owners do not go about with torch and bomb, bent upon destruction. Give the most illiterate foreigner a bit of land of his own, however pitifully small it may be, and a threshold to defend and the violent hootings of radicalism will drift past his ears unheeded. He owns something. The town is his town because he owns a piece of it. Whatever threatens the community threatens his property. Men who have roofs of their own do not go about scattering firebrands.

Of the forty per cent. of Americans who do own their own homes, not one has yet been classed with the malcontents. Home owners as a class are universally considered to be thrifty, law abiding, religious, public spirited, good workmen, desirable citizens. There are men who will argue that the flagrantly undesirable could hardly be so fundamentally altered as to become desirable citizens merely through the ownership of property. It is a hopeful sign, however, that the utterly undesirable constitute but a minority of the percentage of the restless. The Forces of Disorder may be past salvaging; but what of the Forces of Discontent—most of whom the eminent statistician christens with the dreary name of "galley slaves" working out their drab days for small compensation? What of the simple hearted children of the old world who have been lured to this country by the extravagant advertising of unscrupulous agencies, promising a "home of your own in America, freedom and prosperity?" These offer a fertile field for the agitator who finds small difficulty in persuading them that they have been cheated and misled. What of the young men who must battle conditions a hundred times more strenuous than those which confronted their fathers?

What of the children? Here comes Uncle Sam again with his columns of irrefutable figures, to prove that the death rate in children is lowest in the homes owned by the parents. In rented homes of the lowest class the death rate of infants averages two hundred and eleven per thousand. In homes owned by the parents this rate is reduced to eighty-six per thousand.

And what of the future of the seven hundred and eighty-nine who survive? Psychologists aver that regardless of origin and environment, every individual possesses some measure of criminal tendency. The youth who grows up in the discouraged and sullen atmosphere of discontent, who gets little out of life save hard knocks, is already predisposed



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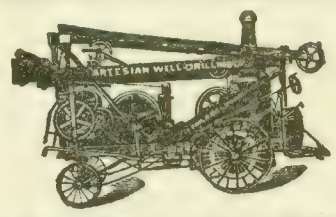
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to criminality and an easy victim for temptation.

What of the women? The home-making instinct is probably the most persistent attribute of woman. Long after the mating passion has burned itself out and the maternal instinct has died—lingeringly, usually and with recurring pangs—the homing instinct stubbornly endures. Only a woman who dares not tack a picture upon the wall of a rented house, or dig a posy bed in a piece of ground that belongs to someone else can understand the desolation of the homeless. There are women in the Forces of Disorder. Emma Goldman is a woman. There are millions of women in the dreary Army of Discontent.

The Government is depending upon the loyalty of the contented, prosperous, thrifty, forty per cent.—upon the home owners of America. The intiative of the sucecssful classes, the contented classes, must somehow bridge the chasm which separates them from the army of the drifting and discouraged. Give the homeless man an opportunity to acquire a home. No propaganda will be needed to arouse the desire in the hearts of the sixty per cent. The home instinct dies hard. It is as old as the earth, as old as discontent, as old as pain.. Discouragement has drugged it. Despair has beaten it to the ground. The poison of harbored grievances has stupefied it; but let hope shine upon it but for a little while and except for the occasional cases where actual degradation has occurred, you will have a little plant thrushing out eager tentacles—seeking friendly air and rains and the depths of the sane and homely earth in which to root.

It should be possible for every man and woman in America to own a home. It is not now. The day of cheap land, government grants and boom sales is over. So is the halcyon time, famous in literature, when the deserving young mechanic, blessed with good health and fifty dollars in money could acquire a title to the dilapidated mansion on the outskirts of the village and thence proceed to prosper amazingly by sheer power of his stubborn optimism and thrift.

There is little value in making bacteriological surveys to discover where the ailing sixty per cent. contracted the malady which is making Uncle Sam the sick man of the Western World. What the country needs now and quickly is the remedy. Many men of vision are already seeing this, striving in their individual and personal ways to assuage the feverish sore. It is a significant fact that the great industrial centers suffering least from strikes and riots and credited today with greatest efficiency in production are under the direction of men who have already recognized this human element, this fundamental hunger, and have provided the opportunity for every man to earn a home of his own.

Cities and communities are studying the problem and it is here that the hope lies. The situation which is national in scope and which can be partially ameliorated by the efforts of corporations and individuals, must nevertheless be handled--finally as a community problem. The initiative of the forty per cent. in every community must provide the organization and financial foundation for some sort of housing corporation which shall have for its chief purpose the development and sale of permanent homes on terms elastic enough to fit the emergency.

These housing projects will not be profit returning. Six per cent. at best is the most an investor can hope to realize from any community development of this character, and six per cent. is no longer considered a profit. The man who devotes his capital to the community housing corporation must be moved by the same altruism which prompted the purchase of Liberty bonds or bought flour for salvation army doughboys.

The sore which festers upon the national body—the throbbing sore of radicalism and unrest—is as much a cancer to civilization as was Prussianism. There must be no selfishness or stint when it comes to the application of the prescription.

The community housing corporation is undoubtedly the biggest thing for the American of the next decade to accomplish. It is the thing under the right hand of every citizen, every business man—the poignantly needed thing. Though hundreds of Chambers of Commerce and other agencies have studied the question during the past year, these organizations have been so handicapped by inadequate laws, reconstruction conflicts, problems of finance and labor and the general apathy of the forty per cent. that the plans and details for the formation of these corporations upon a permanent basis are still vague. Many plans have been subjected to preliminary tests and discarded. A few salient features of all the experimental mass remains.

The first of these is that the problem of housing the "sixty per cent." must be placed upon a community basis organized, financed and operated by the initiative of the "forty per cent."

Second, the community housing corporation must have for its chief purpose the development and sale of permanent homes, and discard entirely the idea of providing temporary relief for a pressing emergency.

Third, community housing must be so conducted as to provide every possible advantage in quantity buying and production, location of development sites, and schemes of beautification.

Fourth, the dominant idea always must be to provide the opprtunity for every industrious man to buy a permanent home and pay for it on terms that will fit his income.

Fifth, no community can safely undertake a housing project of importance without first analyzing local conditions and attempting at least, to visualize the possibilities of future development.

Sixth, Federal and State agencies are needed to correlate the activities and community organizations to gather and disseminate information, and to provide expert advisory service.

Seventh, speedy enactment of bills now before Congress and of additional legislation designed to provide federal aid for home building, to relieve burdens of taxation upon real estate mortgages, and to establish upon an efficient basic governmental facilities for promoting home building and home owning.

Eighth, speedy enactment by state legislatures of laws supplementing the federal laws, and the abolishment of pernicius state laws which have already made it difficult to interest private investors in schemes of housing development.

Ninth, the general adoption of definite community plans, modern housing codes, and state and municipal laws designed to eliminate undesirable housing, "shack villages," crowded tenements and other breeding places for disease, crime, ignorance, and conflagration.

Tenth, the development of similar plans for promoting home ownership on the farm and the betterment of rural life.

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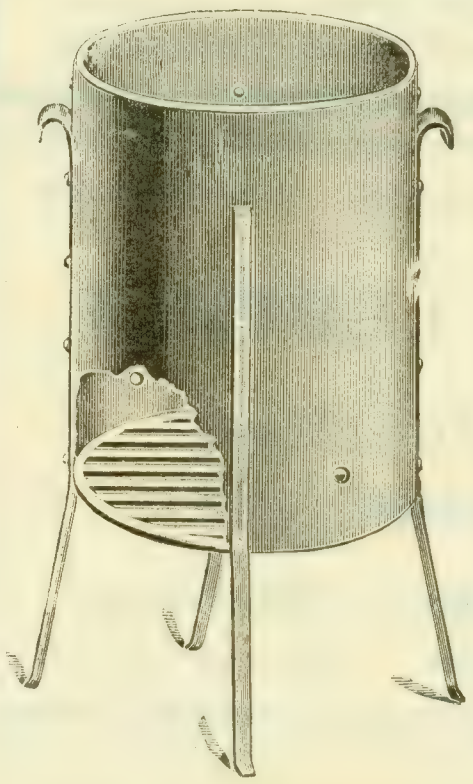
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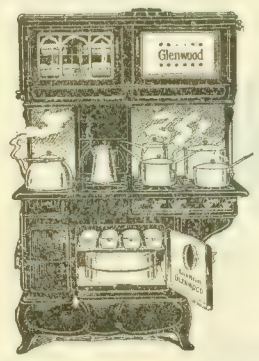
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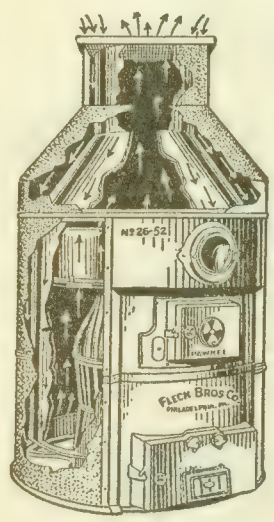


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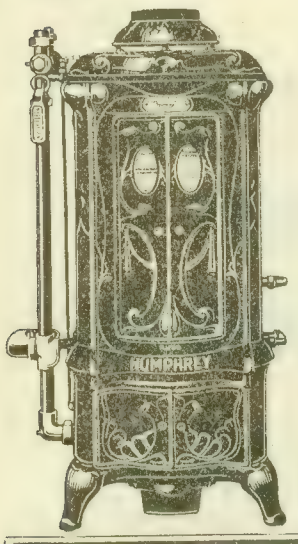
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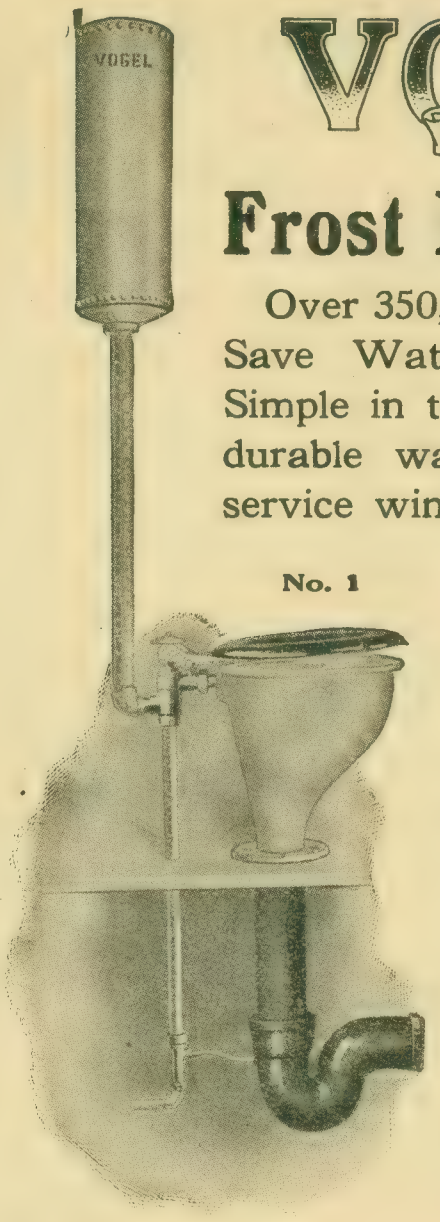
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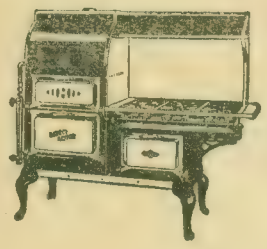
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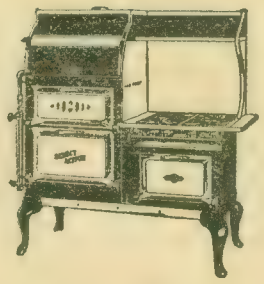
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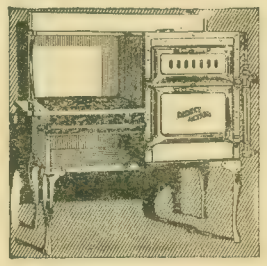




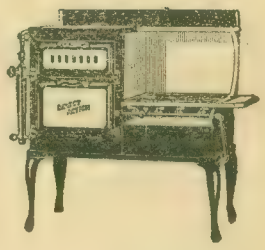
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Vol. XXXV, No. 46
November 17, 1920

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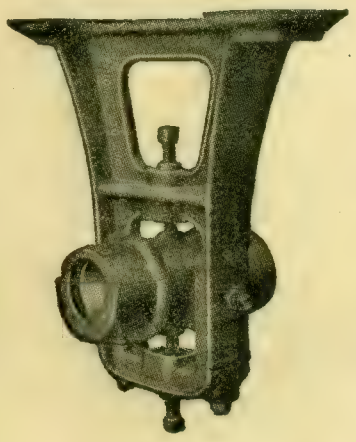
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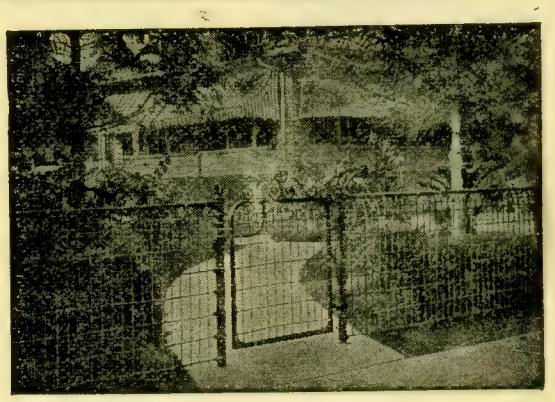
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 46

PHILADELPHIA
November 17, 1920

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As The Editor Sees It

THE statements made by William H. Ball, of the Philadelphia Real Estate Board, regarding the housing situation in this city, have called forth strenuous protests from all sides. Surely one need only refer to personal experience, or to the experience of friends and neighbors, to realize that there is a housing shortage. With people compelled to buy houses or get out of them, with others searching in vain for a house or apartment to rent, with people on every hand willing, in their desperation, to pay any price for accomodations, it seems absurd to dare to assert that the housing facilities here are about normal. As J. N. McGarvey puts it:

"Mr. Ball apparently thinks we are all hypnotized. The Sheriff must be hypnotized into believing that hundreds of eviction writs are being taken out for service at his office in the mad scramble of families to displace one another and find shelter over the winter. The poor men and women who have tramped Philadelphia's streets for days and weeks in search of a vacant dwelling in which it would be possible to make a home must also be hypnotized. And I guess the people who are advertising premiums to anyone who will inform them of houses for rent are out of their heads altogether.

"I do not see how Mr. Ball can reconcile his latest fantastic statement with the declaration he made a few months ago that the 'housing shortage in Philadelphia is at least 15,000 units.' He made that statement in a signed article in the Philadelphia Real Estate Board's monthly magazine.

"As a practical builder and an official of the Operative Builders' Association, I know that Philadelphia is suffering from a shortage of no less than 25,000 houses at the present time. We used to build 7,500 houses a year to take care of our normal increase in population. In 1916, our banner building year, we put up 11,000 houses.

"Imagine how that compares with the 1919 building record in this city of about 1,000 houses and this year's record of about 2,000. Have the number of marriages become less since 1912 and 1915 or have thousands of persons decamped and made Philadelphia a sort of 'deserted village,' as Mr. Ball's statistics would lead us to believe?

POLICE FOUND 2,400 EMPTY HOUSES

"The facts are that Mayor Moore had a survey made by the police recently to show how many houses were vacant in the city. A total of 2,400 were discovered. Some of these were being held by speculators for sale. A large number were unsuited for occupancy by small families. Among these are many immense houses in the older part of the city, where wealthy families lived. It is too expensive to transform these buildings into apartments now and they lie idle, as no man of moderate income could successfully undertake their maintenance. But even if these housese were all occupied, it would provide no appreciable relief. The number of houses is being reduced, too, by the destruction of seventy-eight houses in the Tenth and Lombard streets block, where many negro families lived. These people must be accommodated somewhere. Houses also are being demolished in other sections.

"When a young couple get married their greatest ambition usually is to make a home of their own. Often they have saved a few hundred dollars for just that purpose. How many of them can find dwellings in which to set up these decent, modern American homes that are so necessary to the welfare of our Nation?

Comenting on the argument with Mr. Ball, during which the latter made his startling statement, Mr. John Ihlder said:

"I have nothing further to say directly bearing on my argument with Mr. Ball," said Mr. Ihlder, "except that I still doubt my ears when I remember the statement indicating our housing shortage was not borne out by facts.

"If we are all mistaken, and there is no housing shortage in Philadelphia after all, I have a modest request to make for twenty small sanitary houses to rent for $25 a month each which I

DRAWING MATERIALS

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have been endeavoring to locate with all the facilities at the disposal of the Housing Association. I have been unable to find them and would like to get somebody who could do so. These houses are necessary to provide shelter for families of small means in this city who are in desperate condition for lack of places to go. Their cases have been referred to this association through various civic agencies."

Opinion among experts now seems to favor some form of tax exemption for new buildings in order to encourage and stimulate the necessary building. Regarding this, Mr. Ihlder says:

"Discussion here seems to favor a fifteen-year exemption. The danger in exemption without regulations is that cheap, bad construction, which would not last, might be foisted on the community by unscrupulous persons. Someone should pass on the buildings presented from exemption. In England, where such a law is in force, a department has been established to pass on the plans, and multiple dwellings such as tenements and apartments are not permitted to go free. We ought to have the same thing here if the system is adopted. Questions must be answered to show whether the house is well and permanently constructed, provided with sufficient light and air space and sanitary accommodations.

"There has been some talk about the inequity of a tax exemption on new buildings, but the facts are that old houses pay taxes anyhow now and a few thousand new houses in Philadelphia would add only slightly to the total cost of our municipal service. The city might be expected to benefit on the whole through relief from congestion and by the stabilization of values. In New York, the exemption is a right which may or may not be exercised by the city government and for that reason is capable of being withdrawn or enforced as the citizens or their officials deem fit."

THE difficulty of financing home building at present is one great factor in the slow progress being made to meet the shortage of homes, but there are many people who are waiting, —even though the money is available— in the belief that prices must come down. As to this, there are varied opinions, all from equally reliable sources.

Is it, then, in line with ordinary business sense, asks the *American Contractor*, to undertake the building now, when, at best, the situation is uncertain?

If only the UNCERTAINTIES were present the answer would be, no, continues the *Contractor*. But there are present some CERTAINTIES of which we do not hear so much. One such certainty is high rent, bound to continue until the housing shortage has been wiped out. How long will that be? No person purporting to be familiar with conditions throughout the country will seriously submit that we shall be back to normal in house and housing facilities in another five years. We have been talking much about the housing shortage incident to the war and in most minds is the thought that our trouble in this field has to do only with a deficiency which developed while we were so busy fighting we had no time to build.

THE FACTS ARE THAT THE HOUSING AND HOME BUILDING IN THE UNITED STATES, SINCE THE ARMISTICE WAS SIGNED, HAS PROVIDED NO MORE FACILITIES THAN ENOUGH TO REPLACE THE WASTAGE. We have burned down, lost by wind, by deterioration, by condemnation, by accident and by natural wear houses and housing facilities which approximate the facilities we have constructed. We have not met the normal current demand from day to day, to say nothing of catching up on the deficiency incident to the war years.

Rents were last to go up and they will be last to come down in spite of the best efforts of legislators, rent commissions and popular dissatisfaction. Let the prospective home builder contemplate five more years of extremely high rents when he attempts to get the answer on the soundness of now building a home.

Would the average home owner be willing to pay $1,400 for a $5,000 property? In Chicago four and five-room flats which, before the war, rented for $35 now range from $60 to $75. Five years from now the renter will have paid the landlord $3,600 for one of those $60 apartments and have nothing to show but a bunch of rent receipts. The same renter could build a home NOW for $5,000 and five years from now, instead of rent receipts, he would have a $3,600 equity in his home. By paying $1,400 more than he would pay in rent he would have a $5,000 property. By paying only rent he gets rent receipts and the privilege of paying more rent. Does business prudence recommend the possession of rent receipts or $5,000 worth of real property?

Of course the problem is not as simple as it is represented in the foregoing; it is complicated by taxes, insurance, etc., but there is a simple business problem in home buying and it is whether, in the long swing, it is better to pay rent and have nothing, or pay a sum not materially more than rent and have property which is bound to be worth more and a great deal more than the difference between the rent paid and the actual cost to the home property.

It is impossible for the writer to convince himself that construction costs are going to drop appreciably for many years. But granting that they may recede there is one certainty. Five years from now construction costs will not be so low, materials so cheap, that the $5,000 home or property built today will have shrunk in value to $2,500 and if it did shrink to

(Continued on page 949)

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Residences (28), East and West sides of Bonafon street, North of Greenway avenue, $192,000. Architects, Pedrick & Crichton, Darby, Pa. Owner, John M. Gallagher, 610 Perry Building, Philadelphia. Brick and stone, 2 stories, 16x32 feet, slag roof, hot air heating, electric lighting, pine floors, iron work. Owner is taking sub-bids.

School Building, Northwest Corner Seventh and Norris streets, Philadelphia. Architect, private plans. Owners, Board of Education, care of John C. Cassell, Nineteenth street above Chestnut street, Philadelphia. Stone and brick, 4 stories, 147½x171 feet, slag roof, pine floors, stone foundations, steam heating, electric lighting, tile and marble work, slate work, fire towers. Plans filed. Owners will be ready for bids in a few weeks.

Sub-Station Postoffice, Southeast Corner St. Vincent street and Rising Sun avenue, Philadelphia, $9,000. Architect, private plans. Owners, Michael Stevens, 926 St. Vincent street, Philadelphia. Brick, 1 story, 32½x89 feet, slag roof, pine floors. Owner will build.

Building (fire repairs), 41 South Water street, Philadelphia, $5,000. Architect, private plans. Owners, Estate of V. L. Cavanna, on premises. General restorations. Owners will build.

Grading Bridge Street Yard, Abutments, Retaining Walls and Column Foundations, Frankford Elevated, Philadelphia. Architect, private plans. Owner, City of Philadelphia, City Transit Department, 1211 Chestnut street. Iron, steel and concrete work. Lowest bids submitted by Thomas Connor, 3329 North Fifth street, $45,645.

Warehouse, rear of 325 Market street, Philadelphia Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Markowitz Bros., on premises. Brick and steel, 2 stories, 80x50 feet, stone foundations, slag roof, plank floors, electric lighting, rolled steel sash and doors, hollow metal skylights, iron work, elevator, bond. Architects have received bids.

Stable and Garage, 723 New Market street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. Brick, reinforced concrete and steel, 1 story, 62x146 feet, slag roof, cement floors, electric lighting, steam heating, stone and concrete foundations, hollow metal skylights. Architect is ready for bids.

Store (alts.), 519 Market street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owners, Sklaroff Bros., 518 South street, Philadelphia. New front, marble base, flush bulk, plate glass, tile work. Plans completed. Architects are taking bids.

Residence (alts.), 2014 Wallace street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, E. R. Dresden, care of architect. General alterations, plumbing, hot water heating, electric lighting, tile work, hardwood floors, carpentry, mill work. Architect will be ready for bids in one week.

Dwellings (2), Arleigh street, North of Durham street, Philadelphia, $8,000 each. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Stone, 3 stories, 27½x35½ feet, slate roof, hot water heating, electric lighting, oak and pine floors. Owner will build.

Garage, 831 Fernon street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Dr. Frank Carbone, Sixth and Fitzwater streets, Philadelphia. Brick, 1 story, 16x52 feet, slag roof, cement floors, stone foundations, steam heating, electric lighting, hollow metal doors. Owner will take bids.

Department Store (alts. and add.), 20-22 Mill street, Mt. Holly, N. J. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, Nathan Nerenborg, on premises. Brick, 3 story add., 1 story 18x49 feet, slag roof, general alterations to entire building, structural steel and iron, steam heating, electric lighting, marble work, cabinet work, metal ceilings, plate glass. Owner is ready for bids.

Store and Dwelling (alts.), Northwest Corner Diamond and Marshall streets. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owners, Silber Realty Co., 2123 North Eleventh street, Philadelphia. General alterations to 3 story building, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work, plumbing, cement work. Architect will take bids in a few days.

Office Building (alts.), 23 North Eleventh street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. General alterations, carpentry, mill work, plumbing, steam heating, electric lighting, pine floors, plastering, metal lath. Architect ready for bids in a few days.

Pump Pit, American and Callowhill streets, Philadelphia. Architect, Birkinbine Eng. Offices, Parkway Building, Philadelphia. Owners, Delaware Storage & Freezing Co., on premises. Concrete and steel, 6x13 feet, concrete foundations. Owners taking bids due as soon as possible. Wills-Ludwick Co., 1706 Sansom street; William Linker Co., 831 Cherry street; Monaghan-Losse Co., 3016 Chestnut street; Barclay White Co., 1713 Sansom street; Hughes-Foulkrod Co., Commonwealth Building, and Charles H. Dading, Bellevue Court Building, are figuring.

Residence (alts. and add.) to Stores and Apartments (2), 5438 Woodland avenue, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, John Hans, Fifty-fifth and Woodland avenue, Philadelphia Brick, 3-story add., 20x30 feet, slate and slag roof, pine and hardwood floors, plumbing, cement work, fireproofing, metal ceilings, flush bulks, plate glass, marble work, electric lighting, hot water heating, stone foundations. Plans about completed. Owner will take bids in a few days.

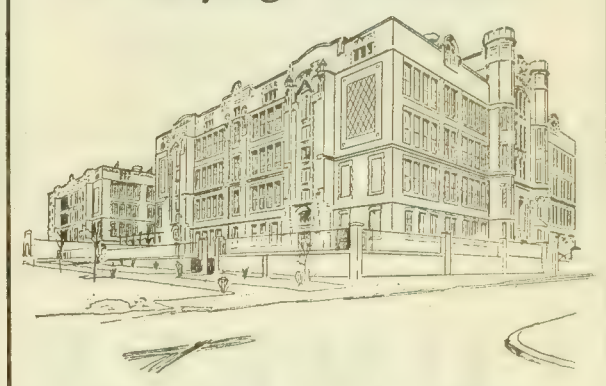
Riding Academy, Southeast Corner Twenty-fifth and Callowhill streets, Philadelphia. Architects, Hance, Neely & Mitchell, 2126 Pine street, Philadelphia. Owners, Parkside Riding Academy, care of Edwin J. Spriggs, premises. Steel frame, corrugated siding and roof, 80x100 feet, electric lighting, hollow metal sash. Plans in progress. Will be ready for bids in two weeks.

Stores and Apartments (alts. and add.), Front and Rising Sun Lane. Architects, Hance, Neely & Mitchell, 2126 Pine street, Philadelphia. Owner, name withheld. Brick, third story add., 20x48 feet, slag roof, pine floors, cement work, electric lighting. Plans in progress. Architect will be ready for bids in two weeks.

Building (alts.), 102123 Arch street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, name withheld. General rearrangement of second floor. Plans in progress.

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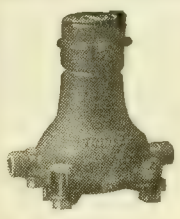
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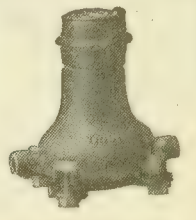
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circle, and bench ends and centers. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, care of Frank H. Caven, Director, Room 113, City Hall, Philadelphia. Owners taking bids due November 18th at noon in Room 216.

Twin Residences (4), Northeast Boulevard and Pratt street, Philadelphia. Architect, Carl F. Otto, Foulkrod and Oakland streets, Frankford, Philadelphia. Owner, Matthew J. Best, 3215 H street, Philadelphia. Brick and stucco, 2½ stories, 20x35 feet, slate and tile roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Plans completed. Owner is ready for sub-bids.

Bungalow and Garage, Chelten avenue, West of Seventh street, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, F. J. Rosenau, 1823 Erie avenue, Philadelphia. Hollow tile and stucco, 1½ stories, and 1 story, 37x47 feet, shingle roof, composition, maple and cement floors, iron work, Bond, tile work, stone foundations (plumbing, heating reserved), garage, 1 story, 19x13 feet. Architect has received bids.

Store (alts.), Frankford avenue and Foulkrod street, Philadelphia. Architect, Carl F. Otto, Foulkrod and Oakland streets, Frankford, Philadelphia. Owners, George A. Gercty & Sons, 4800 Frankford avenue, Philadelphia. Cut stone, parquetry floors, roof repairs, plastering, electric work, plumbing and heating, painting. Architect has received bids.

Factory (add.), Northwest Corner Sixth and Berks streets, Philadelphia, $4,000. Architect, private plans. Owners, Taylor Heald Co., 310 North Eleventh street, Philadelphia. Brick, third story add., 53x110 feet, slag roof, pine floors. Owners will build.

Warehouse (fire repairs), 324 South Delaware avenue, Philadelphia, $10,000. Architects, Meigs, Simon & Fearing, 1211 Walnut street, Philadelphia. Owners, Radnor Realty Co, Commercial Trust Building, Philadelphia. General restoration. Architects will build.

Chicken Slaughter House, 103 Pine street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. Brick, general remodeling of two story building, 16x45 feet, slag roof, cement floors, stone foundations, electric lighting. Plans about completed. Ready for bids in a few days.

Residence (store in basement alt.), 4821 Florence street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, C. Kremer, on premises. Flush bulks, kinnear bars, metal ceilings, marble work, iron work, pine floors. Plans completed. Ready for bids.

Apartment Houses (2), Wayne avenue and Walnut lane, Germantown, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia Owner, name withheld. Brick, 2 or 3 stories, slag roof, electric lighting. Sketches being drawn.

Apartment Building (alts.), 735 South Twenty-second street, Philadelphia. Architect, C. Henry Wilson, 2nd, 2028 Berks street, Philadelphia. Owner, Jonathan Clarke, 1908 Bainbridge street, Philadelphia. Interior changes, metal lath, hardwood floors, marbleloid floors, dumb waiter, painting, plumbing, tiue work, electric lighting, steam heating. Owner will take sub-bids in one month.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

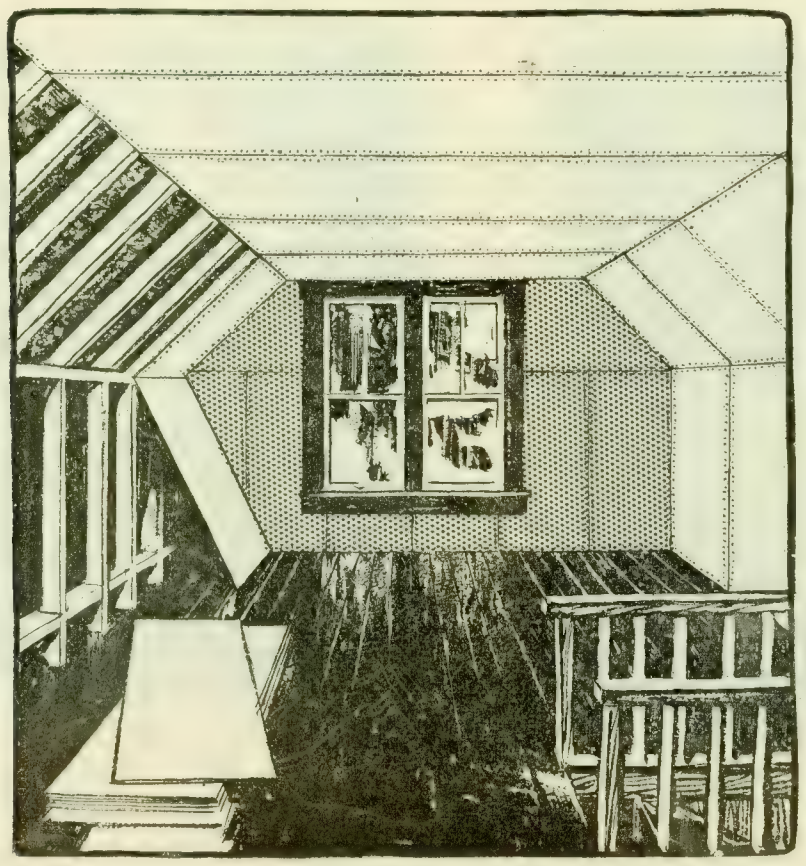
Storage Building (add.), 3336-40 Market street, Philadelphia, $28,000. Architect, private plans. Owners, Supplee-Wills-Jones & Co., Twenty-sixth and Jefferson streets, Philadelphia. Brick and steel, 3 stories, 50x22 feet, slag roof, cement floors, waterproofing. Contract awarded to Geo. Kessler Cont. Co., Drexel Building, Philadelphia.

Building (fire repairs), 229-31 North Twenty-third street, Philadelphia, $4,950. Architect, private plans. Owners, Harry T. Saunders, 31 South Eighteenth street, Philadelphia. Carpentry, mill work, slag roof, plastering, heating repairs, plumbing, electric lighting, skylights, painting, glazing. Contract awarded to Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia.

Garage, 451 North Third street, Philadelphia, $4,500. Architect, private plans. Owners, W. F. Havens & Bro., on premises. Brick, 2 stories, 19x45 feet, slag roof, steam heating, electric lighting, cement floors. Contract

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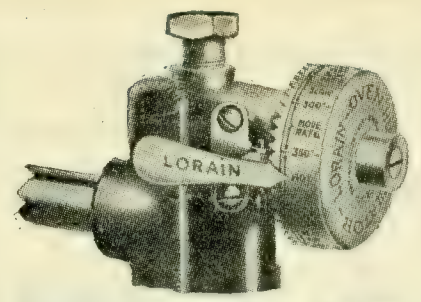
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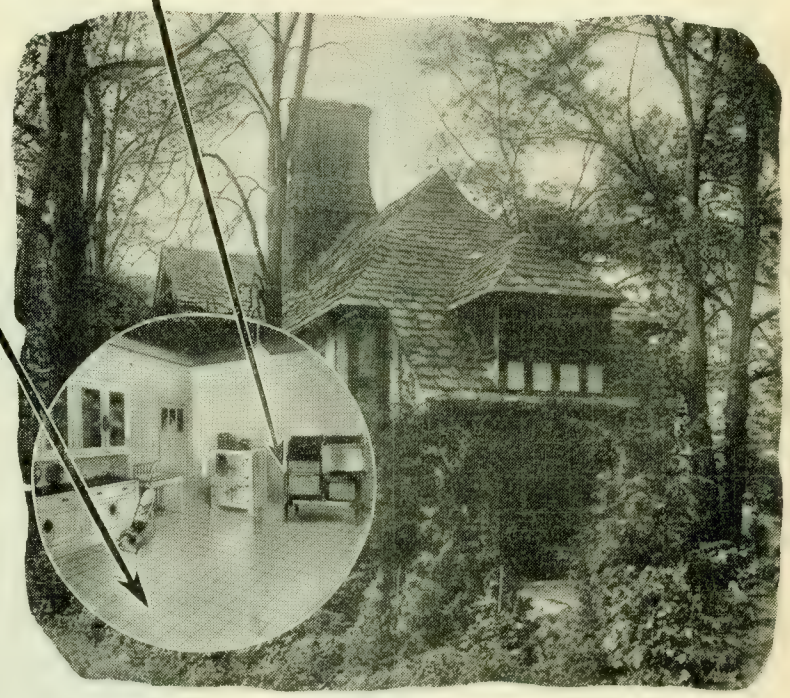
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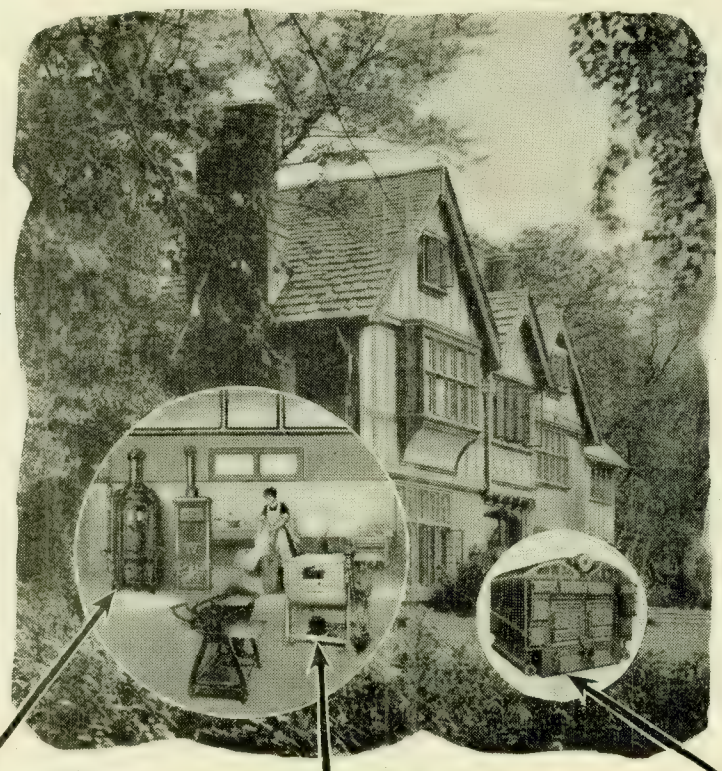


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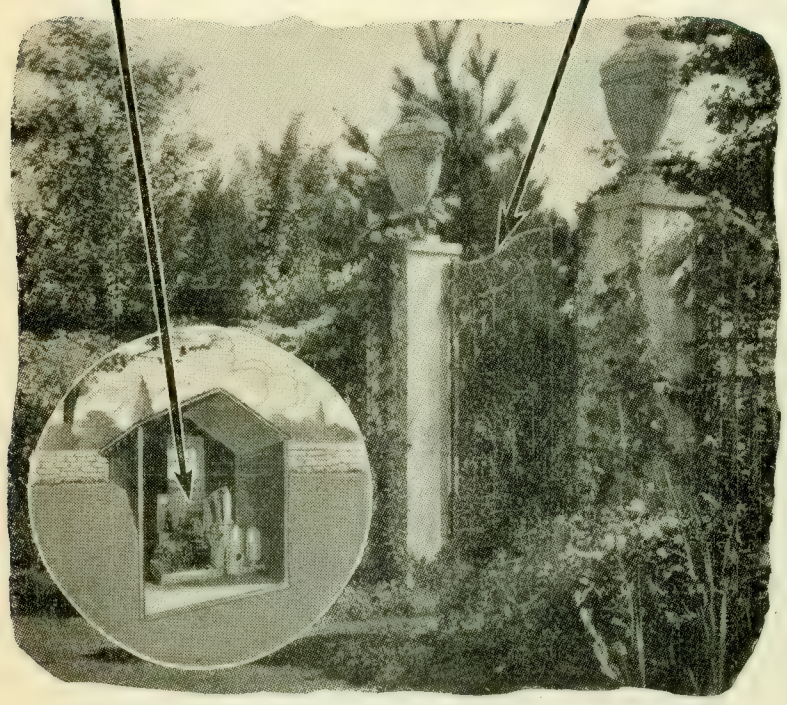
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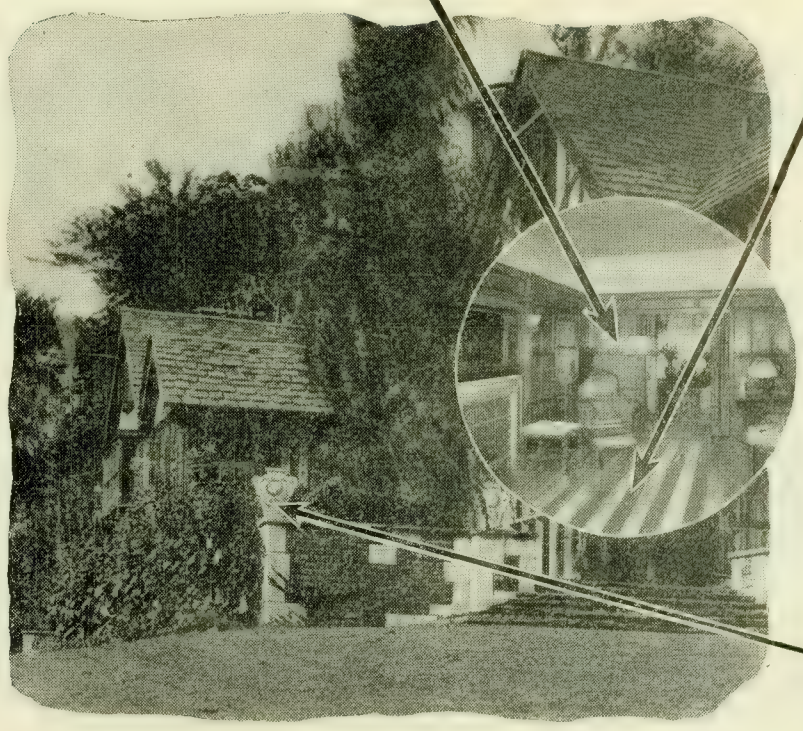
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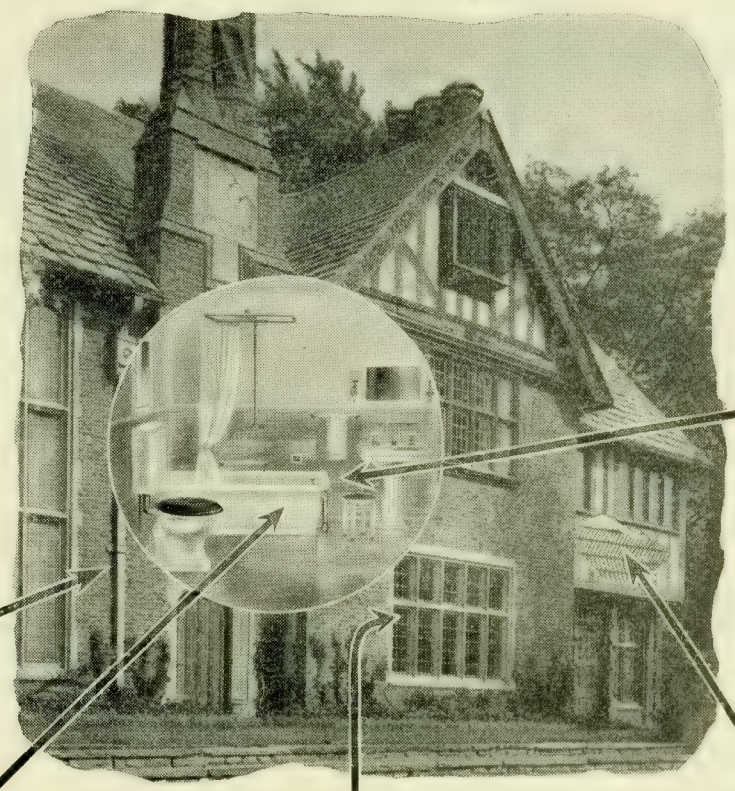
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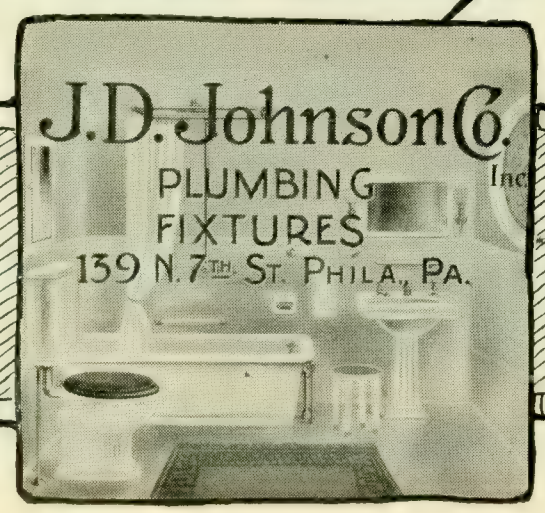


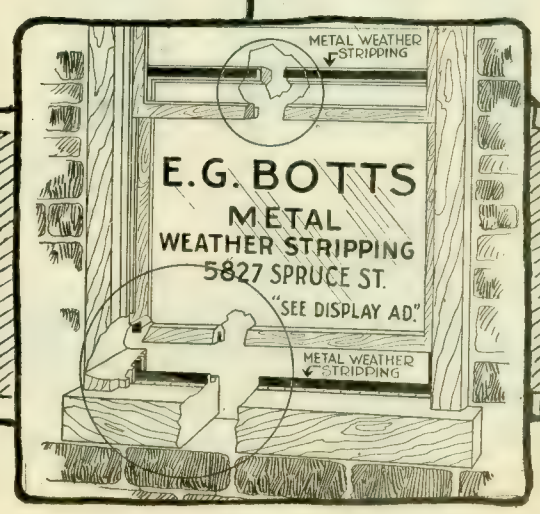




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Factory and Storage Building (fire repairs), 24 South Front street. Architect, private plans Owners, Simon Katz, 431 Walnut street, Philadelphia. General fire restoration. Contract awarded to Frank G. English, 1608 North Carlisle street, Philadelphia.

Ice Plant and Storage Building, Tenth and Callowhill streets, $200,000. Architect, C. Leslie Wier, Longacre Building, New York City. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick and steel, 2 stories, 197x77 feet and 54x110 feet, slag roof, concrete and pine floors, waterproofing, iron work and stairs, fire doors, rolled steel sash, tile work, stone foundations. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street.

Store and Dwelling (alts. and add.), 270 South Fifty-second street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Louis Bultzman, 258 South Fifty-second street, Philadelphia. Brick, 3 stories, changing present building into store and apartments (2), brick, add. 3 stories, 20x16 feet, slag roof, hardwood floors, metal lath, plastering, hollow metal skylights, tile work, electric lighting, hot water heating. Contract awarded to Louis Swerdloff, 228 South Fifty-ninth street, Philadelphia.

Boiler House (add.), 847 North Third street, Philadelphia, $5,000. Architect, private plans. Owner, General Carbonic Co., on premises. Steel and corrugated iron, 1 story, 15x27 feet, cement floors, rolled steel sash. Contract awarded to Austin Co., Bulletin Building, Philadelphia.

Store and Residence (alts.), 4400 Lancaster avenue, Philadelphia, $3,000. Architect, private plans. Owners, Mary A. Sheridan, on premises. New bulk windows, plate glass, painting. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia

Office and Storage (alts.), 2116 Locust street, Philadelphia, $3,000. Architect, private plans. Owners, Cates & Shepard, 1516 Sansom street, Philadelphia. Hot water heating, carpentry, mill work, electric lighting, office partitions, plumbing, painting and glazing. Contract awarded to John M. Yardley, 1716 Sansom street, Philadelphia.

Store Building (alts.), 1102 Arch street, Philadelphia, $6,000. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, A. Graboyes, 1214 Belmont avenue, Philadelphia Brick, 3 stories, 20x89 feet, slag roof, pine floors, metal lath, mill work, metal ceilings, fireproofing, metal bulks, plate glass, rolled steel sash, marble work, electric light, steam heating. Contract awarded to I. Morgassen, 1921 South Fourth street, Philadelphia.

Factory (alts.), Twenty-second and Allegheny avenue, Philadelphia, $10,000. Architect, private plans. Owners, Westmoreland Color & Chemical Co., on premises. Alterations to balcony, steel and concrete work. Contract awarded to McNeill Valentine Co., 841 North Broad street.

Store and Office (alts.), Southwest Corner Sixtieth and Market streets, $9,000. Architect, private plans. Owners, Harry J. Rittenhouse, 6002 Market street, Philadelphia. Carpentry, mill work, bulk window, glazing, hardware, plastering. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia

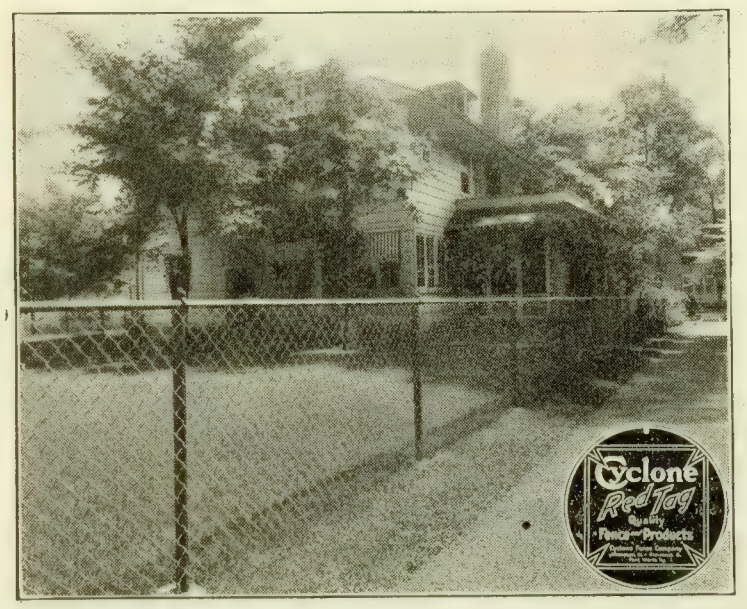
Church (int. alts.), Twelfth and Wyoming avenue, Philadelphia, $4,500. Architect, private plans. Owners, Third United Brethren in Christ, care of A. K. Wier, on premises. Painting, glazing, mill work, electric lighting, plumbing, plastering. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine

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Coal Pocket, Northeast Corner Tulip and Somerset streets, Philadelphia, $118,000. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Concrete and steel. Contract awarded to Robert & Schaefer, McCormick Building, Chicago, Ill.

Stable (add.), 1335-39 South Juniper street, Philadelphia. Architect, private plans. Owner, A. M. Russell, 1327 Dickinson street, Philadelphia. Brick, 1 story, slag roof, electric lighting. Contract awarded to Jos. J. Walls, 1932 South Fifteenth street, Philadelphia.

Storage Building, Cambria street, East of Twenty-second street, $20,000. Architect, William E. Carter, 2820 North Twenty-first street, Philadelphia. Owner, William Mark, 2820 North Twenty-first street, Philadelphia. Stone, 1 story, 65x75 feet, slag roof, steam heating, electric lighting, cement floors. Contract awarded to F. W. Mark Cont. Co., 2820 North Twenty-first street, Philadelphia.

Store and Factory (alts), Southwest Corner Seventh and Spring Garden streets, $3,000. Architects, Fieldstein & Kaplan, Penfield Building, Philadelphia. Owner, M. Berger, on premises. Carpentry, mill work, tile and marble work, new bulk windows, steel and iron, painting and glazing. Contract awarded to A. Warshofsky, 554 North Fifty-eighth street, Philadelphia.

Bungalow, State road, North of Fitler street, $3,500. Architect, private plans, Owner, James A. League, 4231 Womrath street, Philadelphia. Frame 1 story, 23x40 feet, electric lighting, pine floors. Contract awarded to E. H. Christian, 4321 Cloud street, Philadelphia.

Office, Northeast Corner Germantown avenue and Van Horn street, Philadelphia, $2,500. Architect, private plans. Owners, Sun Iron & Metal Co., on premises. Brick and steel, 1 story, 26x15 feet, slag roof, pipeless heater, electric lighting, pine floors. Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

Fire Tower and Elevator Enclosure, Southeast Corner Twelfth and Chestnut streets, Philadelphia, $25,000. Engineers, F W. Reed & Co., 1012 Filbert street, Philadelphia. Owners, S. S. White Co., 211 South Twelfth street, Philadelphia. Brick work, metal lath, plastering, steel and concrete work. Contract awarded to W. G. Hunt & Co., 1335 Mt. Vernon street, Philadelphia.

Stores and Dwellings (5), 5113-17-31-33 Lancaster avenue, $5,000. Architects, private plans. Owner, J. Milton Lutz, 36 South Fifty-second street, Philadelphia. General alterations, electric lighting, flush bulks. Contract awarded to E. L. Seeds, 1101 South Divinity street, Philadelphia.

Factory (alts.), Northwest Corner B and Lippincott streets, $2,500. Architect, private plans. Owner, York Button Works, on premises. Reinforced concrete walls and girders, carpentry work. Contract awarded to M. Morrison, 2322 North Howard street, Philadelphia.

New Front to Building, 5614 Germantown avenue, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, Chelten Trust Co., on premises. Brick and concrete, steel work, cut stone, slate roof, marble and tile work, composition floors, metal lath, steel sash, electric work, painting and glazing, 2 stories, 51x10 feet, stone foundations. Contract awarded to Pringle & Borthwick, 8018 Germantown avenue.

Woodworking Shop and Foundry Building, Forty-second and Woodland avenue. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owners, Morris Truck & Wheel Co., Seventy-fifth and Island road, Philadelphia.



Two Sides

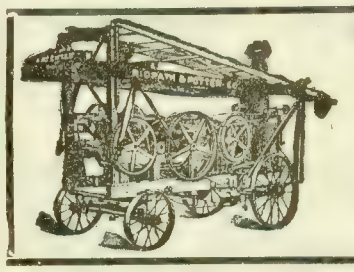
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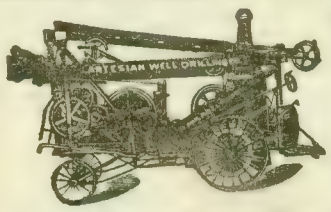
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1609 Ranstead Street, Phila.

Brick and steel, 1 story, 98x50 feet, slag roof, concrete floors, roof ventilators, rolled steel sash, stone foundations (heating, electric lighting and plumbing reserved). Contract awarded to Robbins Cont. Co., 1137 North Front street, Philadelphia.

Building (alts.), Northeast Corner Broad and Locust streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, name withheld. Iron work, roof repairs, plastering, metal lath, carpentry, electric lighting, marble and tile work, composition floors, plumbing. Contract awarded to D. Henwood, 717 South Sixty-third street, Philadelphia.

Reconstruction of Fire Damage, 1406-08-10 Vine street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, General Realty Co., Stock Exchange Building, Philadelphia. Lessees, Crown Auto Paint Co., on premises. Carpentry, mill work, pine floors, slag roof, painting, glazing. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Pennsylvania Construction News

Building (alts. and add.), 407 Market street, Chester, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, J. Christopolas & Bro., 407 Market street, Chester, Pa. Brick, second story add., 18x90 feet, slag roof, maple floors, electric lighting, tile and marble work, iron work. Architect taking bids due as soon as possible. John R. Wiggins & Co., Otis Building, Philadelphia, and R. H. Scroggins & Son, Chester, Pa., are figuring.

Residence, No. 34, Merion, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia Owner, name withheld. Frame and stucco, 2½ stories, 43x37 feet, shingle roof, oak and pine floors, tile work, stone foundations (plumbing, heating and electric work reserved). Architect has received bids.

Church (alts. and add.), Milton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, First Methodist Church, Milton, Pa. General alterations and additions. Plans in progress.

Residences (2), Glenolden, Pa. Architect, private plans. Owner, D. A. Meckert, Glenolden, Pa. Hollow tile and stucco, 2½ stories, 30x42 feet, stone foundations, asphaltum stone roof, pine floors, pipeless heating, electric lighting. Owner taking sub-bids.

School (add.), Glenolden, Pa., $10,000. Architect, Mahlon Bye, Primos, Pa. Owner, Darby Township School Board, R. Guard, president, Darby, Pa. Brick, 1 story, 36x80 feet, Barret roof, hot air heat. Plans about completed. Bids will be taken next week.

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Pennsylvania Contracts Awarded

Cow Stable, Chicken House and Garage (alts. and add.), Ardmore, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, name withheld. Frame, 1½ stories, 80x15 feet, shingle roof, cork, cement and pine floors, iron work, electric lighting, stone foundations, garage, 1 story, stone 20x29 feet, slag roof, cement floors, metal lath, stone foundations, electric lighting, ornamental iron work, cement floors, carpentry, mill work, plumbing, tin roof, plastering, painting, glazing (heating reserved). Contract awarded to Charles C. Pace, Merion, Pa.

Plant (add.), New and Geopp street, Allentown, Pa., $75,000. Architect, Jurick Eng. Co., 120 Andt street, Allentown, Pa. Owner, Mayer Heyberger Ice Cream Co., care of W. Meyer, 67 West Geopp street, Allentown, Pa. Brick, concrete, steel, 3 and 2 stories, 100x34 feet and 111x67 feet, composition roof, concrete floors, electric lighting, roof ventilators. Contract awarded to Frank S. Glassmire, Bethlehem Trust Building, Allentown, Pa.

New Jersey Construction News

Residence, Atlantic City, N. J. Architects, Durham Bros., 1611 Sansom street, Philadelphia. Owners, name withheld. Brick, 3 stories and basement (garage in basement), 62½x23 feet, asbestos shingle roof, pine and oak floors, concrete foundations, hot water heating, electric lighting, tile work, plumbing. Plans about completed. Ready for bids in a week.

Residence, Greenwood Lake, N. J. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Jos. Bamford, Greenwood Lake, N. J. General alterations and additions. Plans in progress.

Coast Guard House (remodeling), Mantoloking, N. J. Architect, private plans. Owners, United States Government, Navy Yard, Philadelphia. Carpentry, painting, glazing, electric work tin roof, hardware. Owners have received bids.

Residence, South New Jersey, $80,000. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, Mr. C. F. Seabrook, care of architect. Frame, 3 stories, 100x40 feet, concrete foundations, tile roof, hardwood floors, electric lighting, tile and marble work. Owner will build.

Kiln Building, Camden, N. J. Architects, Ballinger & Perrot, 329 South Broad street, Philadelphia. Owner, J. B. Van Seiver Co., Market Street Ferry, Camden, N. J. Brick, 1 story, 30x70 feet. Architect taking bids due November 18th. Robert E. Lamb Co., 843 North Nineteenth street; Ketcham & McQuade, 1029 Brown street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; F. L. Hoover & Son, 1023 Cherry street; F. B. Davis & Son, 240 North Sixteenth street; J.

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S. Rogers Co., Drexel Building; H. John Homan, 34 South Seventeenth street, Philadelphia, and Mockett Const. Co., Sixth and Market tsreets, Camden, are figuring.

esidence (alts) to Store Room, Brunswick and Pine streets. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owners, Red Cross Pharmacy, on premises. Brick, 1 story, 45x120 feet, concrete foundations, slag roof, hardwood floors, vapor heat, electric light, tile work. Architect taking bids due November 2t0h. Edw. LaRue, I. W. Clayton, J. Morris and Burton & Burton, all of Trenton, N. J, are figuring.

Store (alts.), 155 South Broad street, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton, N. J. Owner, H. Muster, on premises. Brick, 1 story, 20x70 feet, plate glass, hot water heat, electric wiring, plumbing. Plans in progress.

Stores (3) (alts.), Burlington, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton, N. J. Owner, Frank Stone, Burlington, N. J. New front, plate glass, steam heat, electric light, tile and marble work, plumbing, metal ceilings. Plans in progress.

Store, South Broad street, Trenton, N. J. Architect, J. O. Hunt, Montgomery avenue, Trenton, N. J. Owner, W. L. Ruopp, 1200 South Broad street, Trenton, N. J. Brick, 1 story, 40x42 feet, stone foundations, slag roof, pine floors, electric lighting. Architect taking bids due November 20th. Ed. LaRue, I. W. Clayton, J. Morris and Burton & Burton, Trenton, N. J., are figuring.

Masonic Home (alts. and add.), Burlington, N. J. Architect, Walter T. Arnold, 305 Hall & Lewis Building, Meriden, Conn. Owner, M. W. Grand Lodge, A. F. A. M. of N. J., Burlington, N. J. Hollow tile and stucco, 4 stories, 48x36 feet, slag roof, cement and composition floors, hollow tile, metal lath, roof ventilators, waterproofing, dampproofing, ornamental iron work, rlled steel skylights, sash, tile and marble work, stone foundations (plumbing, heating and electric lighting separate bids). Architect taking bids due November 26th. Warren-Moore Co., Colonial Trust Building, Philadelphia, are figuring.

Residences (50), Haddon Heights, N. J. Architect, private plans. Owner, H. D. Le Cato, Audubon, N. J. Cement block and stucco, 2 stories, 30x38 feet, asbestos shingle roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile work. Owner will build and is taking sub-bids.

New Jersey Contracts Awarded

Office and Apartment, Third street, Camden, N. J. Architect, private plans. Owner, H. L. Young, 324 Pearl street, Camden, N. J. Brick, 2 stories, 18½x60 feet, concrete foundations, slag roof, concrete and hardwood floors, steam heating, electric lighting, tile work, metal lath. Contract awarded to Mockett Const. Co., Camden, N. J.

Store Front, 321 Market street, Camden, N. J. Architect, private plans. Owner, Mrs. S. L. Dinne, Merchantville, N. J. Plate glass, tapestry brick, tile work, electric fixtures. Contract awarded to Mockett Const. Co., Camden, N. J.

Entrance Building, Rendezvous Park, Atlantic City, N. J. Architect, Philip M. Jullien, Commercial National Bank Building, Washington, D. C. Owners, Boardwalk Park Co., Morris Building, Baltimore, Md. Hollow tile, concrete and plaster, 2½ stories, 145x68 feet, Spanish tile and shingle roof, marbleloid, concrete and tile floors, marble work, roof ventilators, iron work, electric lighting, concrete piles (heating reserved). Contract awarded to Wilbert Beaumont, 12 South Tennessee avenue, Atlantic City, N. J.

Boiler House (alts.), Trenton, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owner, New Jersey State Home for Girls, care of Dr. Harris. Brick, new boiler, general interior work, new smokestack. Contract awarded to R. J. Sprague, New York City.

Residence, Cleveland avenue, Trenton, N. J., $3,000. Architect, private plans. Owner, Edw. J. Tolbot, 38 Elmy street, Trenton, N. J. Frame, 2½ stories, 20x40 feet, concrete foundations, slag roof, hardwood floors, electric lighting. Contract awarded to James McDade, 226 Columbus street, Trenton, N. J.

Garage, Prince street, Trenton, N. J., $5,000. Architect, private plans. Owner, Star Express Long Distance Moving Co., Trenton, N. J. Brick, 1 story, 62x60 feet, stone foundations, slag roof, cement floors. Contract awarded to F. Borowicz, 915 Spruce street, Trenton, N. J.

Coast Guard House (remodeling), Mantoloking, N. J. Architect, private plans. Owner, United States Government, Navy Yard, Philadelphia. Owners taking bids due November 17th. Lam Building Co., 1001 Wood street, Philadelphia, additional bidders.

Offices (alts. and add.), Northeast Corner Seventeenth and Chancellor streets, $10,000. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owners, Swayne & Co., care of Noah Swayne, president, Pennsylvania Building, Philadelphia. Brick, 3 story add., 17x30 feet, slag roof, pine floors, steam heat, electric lighting. Contract awarded to Metzger & Sisher, Otis Building, Philadelphia.

Miscellaneous Construction News

Theatre, Wilmington, Del., $130,000. Architects, Zink & Sparklin, 1 Holtz avenue, Baltimore, Md. Owners, Parkway Theatre Co., Wilmington, Del. Brick and steel, 1 story, 100x100 feet, concrete floors, hollow tile, metal lath, tile and marble work (heating, plumbing and electric work reserved). Contract awarded to William D. Haddock & Co., 804 Orange street, Wilmington, Del.

Bungalow, Connecticut. Architects, Hance, Neely & Mitchell, 2126 Pine street, Philadelphia. Frame and stucco, 1½ stories, 26x32 feet, shingle roof, pine floors, stone foundations, hot air heating, electric lighting. Plans in progress.

(Continued from page 940)

that figure, the man who builds today would have shown better business judgment than the man who continued to rent, for the latter at the end of five years would have no home property but would have invested $3,600 in rent, while the man who built, having invested but $1,400 more than his renting friend, if worst came to worst, would have home property worth $2,500 and future freedom from the landlord.

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ment. It is a sound business proposition which deserves to be considered by the man who contemplates home building in the face of some unfavorable factors.

HUMAN NATURE AND THE FACTORY BUILDING

The modern science of factory management is now turning its attention very seriously to the human element as the most important factor in production. In the past, machines and the processes of production received first attention. The pioneer work of efficiency engineers has concerned such subjects as rate of lathe speed, position of tools, elimination of unnecessary movements on the part of operators, etc.

Even when attention was given to the workmen themselves, they were considered as almost mechanical elements in production. Only recently has it been realized that operatives must be studied and cared for as human beings, that is, as possessing such qualities as initiative, pride, loyalty, and other self-activating motives. This new point of view seems likely to revolutionize industry. It promises discoveries among human forces comparable perhaps to epoch-making mechanical inventions.

As Z. G. Simmons, President of the Simmons Mfg. Company has said, "The time is fast approaching when it will no longer be possible to work any of the great revolutionary economies in industry that were brought about with the steam engine, by the discovery of the application of electricity, and by the discovery of the process of making steel; I believe the next great field of economy in industry is the conservation of the human equipment in our plants."

As the study of human efficiency becomes developed, it will naturally divide itself into two parts. One will concern itself with those means of increasing efficiency which are brought directly and consciously to bear upon the employees. All forms of instruction, of education, nearly all so-called welfare work, belongs to this class. The second will consist of those elements favorable to productive efficiency which are brought to bear upon the employees quietly, unobtrusively, without the need of their conscious attention.

As an example in the first field, an operative in an automobile factory is taught a certain time-saving method of using an assembly wrench. As an example in the second field, the work itself is so set in relation to the source of light that the operative's body will not cast a shadow on it. The one is an example of consciously learned, the other of unconsciously learned efficiency.

Consideration of the human element in production must start with the factory building itself. It must be so designed as to accommodate the necessary machinery and its accessories, with due regard to convenience of taking in raw material, production, routing, assembling and shipping the finished product. It must also contain the necessary accommodations for the employees, including toilet rooms, rest rooms, etc. But thirdly, too, it should be designed with due regard to those unconscious elements in human nature that make for true efficiency. A successful factory building, in other words, has certain characteristics which in themselves promote the welfare and health of the employees, or add to their satisfaction in their work, or otherwise favorably influence their morale. The more important of these characteristics of a successful factory building in relation to the morale of employees will now be discussed.

APPEARANCE OF THE BUILDING

In designing a factory, the appearance

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of the building itself has only recently been given due consideration as bearing on the efficiency of employees. Yet it has a good deal of importance. Station yourself near the entrance of an old-fashioned factory and note the faces and general attitude of the employees as they come to work. Then watch the employees entering a modern, attractively built factory and you will see a marked difference. In the latter case, the employees unconsciously display an attitude of interest, of zest, and even pleasure, as they approach their work. Many of them have come from homes which are unattractive, hence the appearance of the factory building appeals all the more to them.

The design of the modern industrial buildings shows a close adaptation to its purpose; and right here, in the simple relation between its functions and its appearance, lies its chief beauty. Indeed the true factory building is a symbol of American industrial life, simple, sturdy, well-proportioned, clean-cut, trim and business-like, yet not cold or unsympathetic, but rather appealing and hospitable in appearance. Such an effect is produced by careful use of suitable materials rather than by ornament, rather by harmonious porportions than by elaboration.

One structural element has done much to give the present-day factory building its character. The demand for a greater degree of daylight, arising from the accuracy and speed required by modern factory work, has brought into being the type of window known as steel sash. Because steel sash can be combined into large openings, architects have availed themselves of the opportunity to design factories with bold expanses of windows, separated only by the brick or concrete pilasters necessary for structural support. A characteristic and really beautiful type of building has thus been developed in America, as individual as our skyscrapers and quite as original.

This daylight type of factory building is naturally very attractive in appearance. The expanse of windows gives a cheery, wholesome effect, while the straight lines of the pilasters or columns suggest dignity and strength. Workmen in such a factory can scarcely help having a feeling of pride and satisfaction and good will for the institution. Such an attitude should not be difficult to turn into real loyalty of incalcuable value.

The interior of the factory building exerts, of course, a much more profound influence on the operatives.

DAYLIGHT AS AFFECTING MORALE

Undoubtedly the first and most important factor is the amount and character of the light itself. Natural light has in itself a strong influence on human nature, an influence not only psychological but physical. Probably through racial inheritance every one feels the repressive effects of darkness or semi-darkness. It associates itself with gloom, dullness, sluggishness and fear. Light, on the contrary, especially daylight, has opposite associations. Its influence is in the direction of cheerfulness, brightness, energy, productiveness and courage.

There is no element in the factory building so valuable in its effects as daylight, yet its value and its application are not by any means fully understood.

The results of adequate daylight in factories are listed by a recent writer on the subjects as follows: Unconsciously increased output; finer and more accurate work; less rejections by inspectors; improved morale of the force; more carefully kept tools, machines, instruments, and so forth; less lost and mislaid material; fewer avoidable accidents; less sickness, colds especially; less cost for artificial lighting.

CLEANLINESS AND SANITATION

An indirect benefit from adequate daylight is cleanliness. Dark, shadowy corners are natural breeders of dirt. Light is a natural incentive to cleanliness. In a recent address to industrial engineers, a well-known executive stresses this point.

"More and more every day, however, up-to-date business requires that both the individuals of an organization and the place of business must be neat and clean. The day of the slovenly shop, or store, or office, and the day of the slovenly man ended when business began to think progressively. No man can live in dirt and not think dirt. Dirt in corners of a shop, store or office breeds not only the germs of bodily disease, but the microbes of failure."

FRESH AIR FOR EMPLOYEES

The adequate ventilation of factory buildings is also an important element in efficiency and is normally an accompaniment of daylight. For the steel sash used in modern industrial plants are provided with ventilators which permits an ample supply of fresh air. To provide natural currents of air, these ventilators should be properly distributed. In some types of buildings, foundries for example, the question of ventilation is of paramount importance. In such cases large sections of sash can be opened simultaneously by the use of special mechanical devices.

The effects on employees of good ventilation are comparable to those of daylight. They consist in the better health of workmen, increased vitality, greater contentment, etc.; in fact, the practical results are all on the profit side of the ledger.

PRODUCTIVE FACTORS WHICH COST NOTHING

Such then, are the more important elements in the factory building that further the morale of the employee. They operate unceasingly, every minute of the day. And yet for the most part, they cost little or nothing. A good-looking factory is no more expensive to build than an ugly one. Walls with large expanse of steel sash cost even less than the old-fashioned brick walls with small openings fitted with wooden sash. Daylight is cheaper than any artificial light. Fresh air is obtained without price. Even cleanliness in a factory is maintained at very slight expense. All of these factors operate to increase production and hence produce dividends at no cost.

The art of thus designing the factory building so as to further the morale of its occupants has grown out of the industrial experience of the past two decades. The modern reinforced concrete factory building dates back only to the early years of the present century. Such improvements as steel sash and standard buildings are later outgrowths due to the same amount for industrial efficiency.

—*Modern Building.*

UNPOPULATING LONDON

THE PROPOSED CONSTELLATION OF SATELLITES FOR THE GREAT METROPOLIS.

BY JOHN IRWIN BRIGHT

One of the commonest of accepted beliefs is that a city is a "natural" growth and that its size can not be affected by reasoned effort. As a matter of fact, it is the ultimate expression of artificiality, being natural only in the sense that too often it is the product of anarchically minded men. History teaches that the means to limit its size has always been found when occasion demanded it.

Mankind's gregarious instinct, added to the desire for safety and for the economic and social advantages obtainable in a community life, are the prime reasons for the creation of cities. But their is no doubt that, once established, their expansion owes much to the spirit of emulation inherent in the human breast. Plutarch expresses this feeling very well in the following sentence: "Whoever it was, Sosius, that wrote the poem in honor of Alcibiades upon his winning the chariot race at the Olympian games, Whether

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it was Euripides, as it is most commonly thought, or some other person, he tells us that to a man being happy it is in the first place requisite he should be born in 'some famous city.'"

In our times the restriction of size by defenses is no longer a factor, as walls and moats offer no appreciable resistance to modern arms. Improvements in transport and the invention of machinery have made possible the support of life in highly concentrated areas of people and has seemingly lifted the ban from all limitations of size. The transformation did not occur over night; the span of several generations was required for its full developement; but nevertheless, sufficient time has elapsed for contemporaneous observation to have lost all contact with the preceding radically different type. The ordinary citizen is chiefly impressed by what has immediately preceded him. Within the memory of his father's father cities have never been artificially restricted in size. Every effort has been made to increase them. Every base and noble impulse has worked that end. National and municipal pride, the deep-seated desire to be identified with something of great importance, to be "a citizen of no mean city," the claims of commerce, the lure of the spectacular, the urge for rapid accumulation of wealth (unattainable mirage to the multitude but possible to the few when presented with the opportunity to exploit large bodies of men), the chance to speculate in land values,—all these desires and stimuli work incessantly for physical expansion.

Speaking in terms of a nation's life this movement has hardly had time enough to get well under way and has by no means furnished conclusive evidence of its own permanency. But how curious it is to find public opinion quite convinced that the growth of cities is one of those natural forces which has always existed and which it is hopeless to attempt to control. Scarcely two per cent. of recorded time has passed since the general use of machinery has brought about an all prevading, stupendous change in urban life and, with entire disregard of teaching of history, we accept our present status as the unchangeable heritage of the past. Woodrow Wilson once said that it took at least two years to establish an old college tradition.

It is human to wish to advance; to retract or to interrupt a well established habit of thought is so distasteful that we are apt to deny the possibility of so doing. But there comes a time when the disadvantages of immensity far outweigh its benefits. The concentrated area can not be fed, housed, and provided with the necessities of life. It is this peak of the curve from which dates the present reaction. Unfortunately a mental environment is difficult to change and we have been moving so long in one direction that the return march to sanity will not be undertaken until there is imminent danger of a collapse of the social structure. But we are approaching that moment and there are signs that in some quarters the danger is appreciated.

The absurdity of this nineteenth century legend has been challenged by the recent founding of the city of Welwyn in England. It is very similar to Letchworth, its near neighbor, in that it is limited in population, "organized for modern industry of a size that makes possible a full measure of urban life surrounded by a permanent belt of rural land, the whole of the land being in municipal ownership." Distant twenty-one miles from the heart of London, it is the first of a surrounding group of similar cities designed not to supplement the metropolis but to substitute for it. The effort is being made on a grand scale to unpopulate London, not by restrictive legislation but by affording its inhabitants better, more wholesome, more hopeful places in which to live.

In this there is no clash with the theory that the size of a city at the intersection of trade routes reflects their importance. The future city can be conceived of as a constellation, its nucleus large enough to embrace all true metropolitan activities but only incidentally a place in which to live. Its increase after these wants have been provided for has no connection with economic laws and leads to waste and confusion. Scattered around it will be the smaller members of the constellation, varying in population from twenty-five to fifty thousand. Each of these units will be connected with each other and with the center by a transportation net, regional rather than local in character. Owing to the manageable size of the units and their scientific planning, the use of street cars and other artificial means of locomotion, insofar as intra-mural communication is concerned, will be largely unnecessary. Danger of traffic and housing congestion will be eliminated, for the towns being restricted in size, provision can be made in advance and with certainty for any possible need. By the simple expedients of the surrounding belt of rural land and the control of the destiny of houses, there can be, in the future, no unlooked for or disastrous expansion.

Two thousand three hundred and eighty-three acres of farm land have been purchased for $532,000,000, an average of $223.00 per acre. To cover this outlay and also to provide a working capital for the development of public utilities; 250,-000-7 per cent. cumulative shares of 1 pound each are being issued.

The London *Daily Mail* has leased in Welwyn for 999 years a fifty-acre plot with an option on another similar space for the erection of a model village. Its terms to prospective builders include a few simple regulations making speculation impossible either in leases or in houses. In every case a tenant wishing to vacate must surrender his land lease (there is no absolute ownership in land), and must offer his house at its original price to the ground landlord, the City of Welwyn. This arrangement has worked successfully for some years in Letchworth and there is no reason to anticipate any but a fortunate outcome for Welwyn.

We have recently witnessed many well-meant efforts in this country to solve the "housing problem" on conventional lines. None of them has succeeded. The triumph of Letchworth, the faith of Welwyn are based on an intelligent idealism and a courage which defies the unknown.

We have long boasted that these traits of character are essentially American and unless we use them in our present emergency, our housing problem will remain for us a perennial affliction.—*Journal of the American Institute of Architects.*

PEP PARAGRAPHS

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Truth is often hard to see because it's so near at hand.

Back up your plans with execution, then you're bound to win.

Enthusiasm is the lamp which throws light into the darkest corners.

Failures follow the well-beaten paths because they demand the least effort.

A man's worst enemy is his own disinclination to do the things he knows he should.

Dollars don't grow on bushes, but they fall to the guys who go out to gather them in.

If you haven't faith in what you're doing, it's a good hunch that you're just where you don't belong.

No one succeeds by sitting around waiting for something to turn up, but by getting out and doing the turning.

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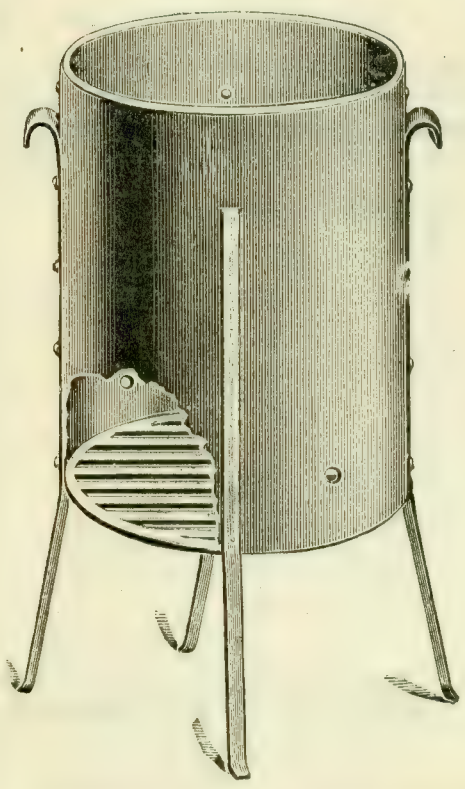
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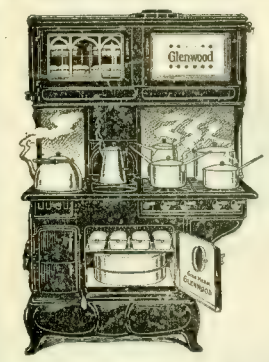
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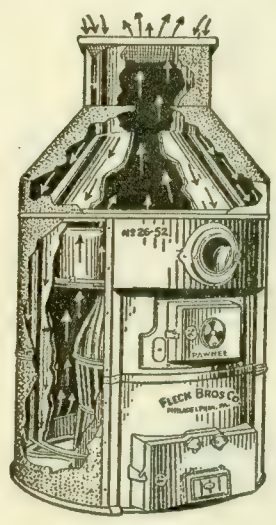


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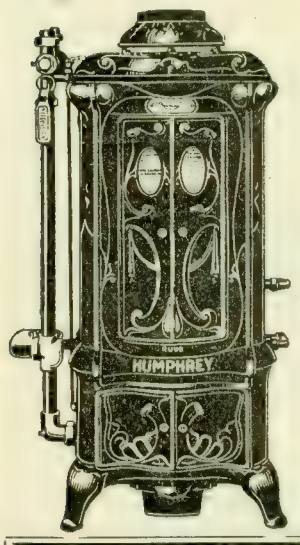
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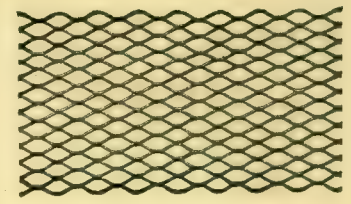
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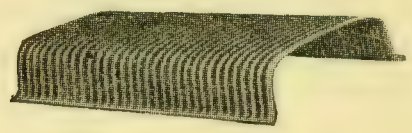
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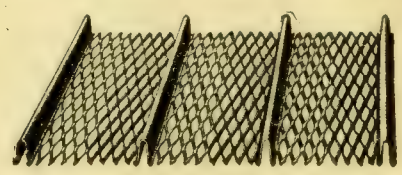
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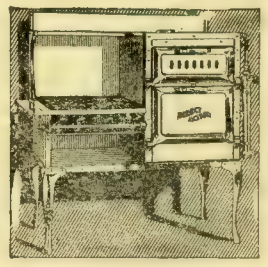


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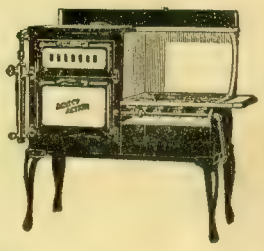
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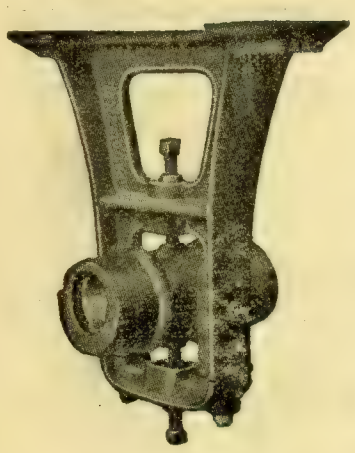
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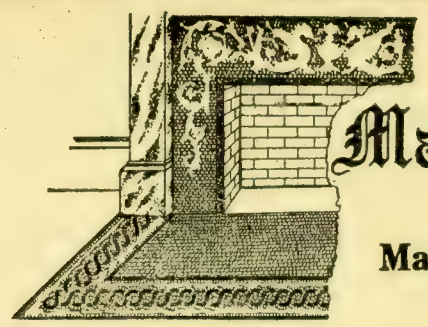
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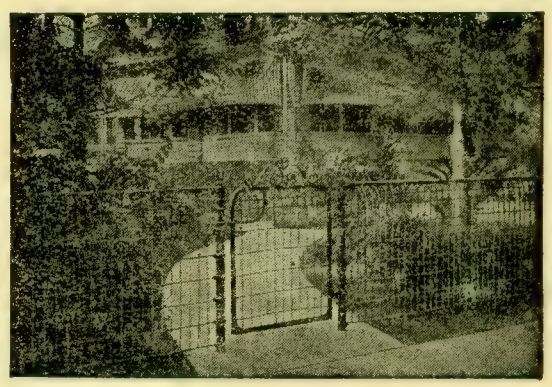
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VOLUME XXXV
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As The Editor Sees It

DISCUSSION of the still unsolved problem of housing the homeless goes on, but as yet no definite course of action has resulted from the discussion and the situation remains acute and grows more serious daily. According to recent statistics one million weddings were celebrated in the United States in 1919, but only 70,000 new homes were erected—400,000 short of the actual needs. In 1890 an average of 110.05 families occupied each 100 homes. Today there are 125 families for each 100 homes and no relief is in sight. With a conservative estimate of 27,900,000 families in the United States by 1925, at least 500,000 homes must be built and then the building program would be on a small scale. At these figures the country would only have 129.06 families for each 100 homes.

If something is not done to remedy the situation by 1926, with the increasing number of families, 2,200,000 dwellings will be necessary. The erection of 3,400,000 homes by 1926 will be necessary if the country returns to pre-war conditions of 115 families for each 100 homes.

In certain cities in New York state the shortage of homes is so great that parents, who have searched in vain for new quarters, are, as a last resort, seeking to place their children in institutions or boarding houses. County welfare authorities have received hundreds of requests in recent months for accommodations for the children of parents who though in very comfortable circumstances can not find rentable houses for their families.

Philadelphia's Housing Association will determine just what this city needs in the way of houses and just what is available at present, through a survey of this territory. After a recent meeting of the Association the following statement was issued:

"We believe that the following will be accepted without question by those in touch with local housing conditions:

"There are practically no vacant houses in Philadelphia except those held for sale only and those out of repair or unfit for human habitation.

NOT ENOUGH HOUSES

"There are not enough houses in the city to accommodate its population at the rate of one family to a house or one family to an apartment.

"Though the number of houses for rent is slowly increasing—the increase being due largely to difficulty in fianancing individual home buyers—it does not meet a tithe of the demand.

"There are practically no vacant houses in good repair for rent at $30 a month or less. When such a house is vacated by one family it is immediately re-occupied by another.

"Many single-family dwellings recently have been and now are being converted into two-family dwellings and tenement or apartment houses.

"Many single-family dwellings are occupied without alteration or conversion by two families or more.

"The tenants or owners of many houses rent single rooms both to individuals and to families. Many of these single room tenants do little housekeeping."

S. W. Straus, president of S. W. Straus and Co., is very optimistic concerning conditions in the near future and says:

"A somewhat better tone is indicated in the building industry by reason of tendencies toward a more stabilized labor situation. Unmistakably the people of the nation are becoming aroused to a consciousness of the widespread need of thrift. Not only have we reached a place where there is manifest unwillingness to tolerate increases in the cost of living, but there is an indicated appreciation of the fact that thrift of time, as well as thrift of money and all other forms of material wealth, is essential. The tendency toward better labor conditions, which comprises one of the outstanding features of the building situation at the present time, may be taken as the manifestation of a growing appreciation of thrift as a stabilizing necessity.

"These conditions should not be accepted as indicating an immediate resumption of pronounced activity in construction work. There is no improve-

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ment of consequence to be noted in actual building operations, and, at this season of the year, it cannot be expected. However, there are reasonable expectations that the spring building season of 1921 will open with considerable activity.

"The building shortage throughout the country is still acute, and, while the people have found it possible to adapt themselves to cramped conditions for the time being, they will not be content with this situation permanently. It is a part of human nature to seek continually higher standards of living. There is bound to ensue sooner or later a very pronounced home building movement which will be hastened as we approach stabilized conditions of labor and other essential building costs.

"Shifting conditions still prevail in the price of building materials, and it would seem the part of wisdom to maintain a cautious and careful policy with regard to cost tendencies. Basic economic conditions should not be lost sight of. Stocks of merchandise which are now being sacrificed must be replenished, high taxation will continue for some time, the tremendous amount of financing that has been done in recent months on a basis of high interest rates will continue to have its effect on commodity costs, and there is a shortage of many commodities, particularly buildings of all descriptions. Current tendencies, therefore, must be analyzed on a basis of these fundamental conditions, and too much emphasis should not be placed on conditions that may prove to be only temporary and from which there may be a reaction."

* * *

The State Board of Examiners of Architects find that many men are holding their applications for registration in Pennsylvania. The Board is anxious to serve every one as promptly as possible. They hope that the applications may be submitted promptly so that all of the architects who wish to register on the basis of previous practice may file their applications in sufficient time that they may be acted upon before the expiration of the time set in the Act.

The experience of other States having similar provisions to that of Pennsylvania find that the individual who has received registration is recognized by public officials and others who are charged with the employment of architects to a much greater extent than those who simply file affidavits setting forth the fact that they have been in practice the required length of time but have not qualified so that they may use the title of Registered Architect.

The first full examination will be held in Harrisburg, Pennsylvania, December 28th to 31st, 1920. All persons who wish to enter upon the practice of architecture are required to qualify, also persons submitting applications for registration whose experience has been insufficient to have their requests granted, are invited to take this examination so that their qualifications may be established.

WORKING MEN AND WOMEN APPOINT COMMITTEE ON TOWN PLANNING AND HOUSING

Carpenters elect Spokesman to confer with Associated Building Trades—Chamber of Commerce and other Bodies.

As a partial result of recent educational and informative activities among the ranks of labor three organized branches in Philadelphia have appointed Committees on Housing and Town Planning within the past week.

The Chairman of these Committees are:

John C. Walsh—Council Associated Building Trades.

W. T. Allen—United Brotherhood of Carpenters and Joiners.

Harry Weinstock—Central Labor Union.

A preliminary meeting attended by fourteen members of these combined Commitees was held last week in the office of John I. Bright, Otis Building, Chairman of the Commitee on Community Planning of the American Institute of Architects.

Arrangements are being made for a joint meeting of the members of these Committees together with representatives from Union Labor College and various Labor Unions in Philadelphia and vicinity to consider plans for carrying forward a program of education and information including lectures and meetings devoted to these important phases of community development.

At the recent regular meeting of the District Council of the United Brotherhood of Carpenters and Joiners, in addition to the above Committee another Committee was appointed of which D. Knickerbacker Boyd, Architect, was elected Chairman and at the same time Spokesman for the Brotherhood comprising twelve thousand members in Philadelphia and vicinity.

Mr. Boyd, who was previously made Spokesman for the Associated Building Trades representing nearly fifty thousand workers, was invited by the Industrial Relations Committee of the Chamber of Commerce of Philadelphia to attend one of the meetings with representatives of the Council and is now in communication with that Committee looking toward a general conference of employers and employed, regardless of the affiliations of either,

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Warehouse, 1529-31 Parrish street, Philadelphia. Architect, private plans. Owner, name withheld. Reinforced concrete, steel, slow burning construction, 4 stories, 32x160 feet, slag roof, concrete and pine floors, elevators, fire doors, rolled steel sash, steam heating, electric lighting. Lam Building Co., 1001 Wood street, is taking sub-bids.

Painting, Cont. No. 588, Frankford Elevated, Philadelphia. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Lowest bidder: Steves Lacios Co., 154 Nassau street, New York City, Item No. 1, $30,900; No. 2, $8,000; No. 3, 15 per cent.

Hotel, Bethlehem, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owner, Bethlehem Hotel Realty Co., care of W. J. Heller, president, Bethlehem, Pa. Stone, concrete and steel, 10 stories, 120x120 feet, slag roof, hardwood, pine and tile floors, marble and terrazzo work, elevators, stone foundations, fire doors. Plans about completed. Architects will be ready for bids shortly.

U. S. Mint (alts.), Eighteenth and Spring Garden streets, Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. New roof, repointing building, etc. Owners taking bids due December 10th at 3 P. M. Drawings and specifications may be procured from architect or custodian of site.

Grading, Paving, etc., Merritt Square, Dungan, Carey, Glendale and Steinber streets, Thirty-third ward, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, care of Frank H. Caven, Director, Room 113, City Hall, Philadelphia. Grading, storm water drainage, water supply systems, concrete walks, brushed pebble finish, granolithic finish, concrete curb, concrete circle and bench ends and centers. Lowest bids: A. J. Conan, North American Building, approximately $6,500; Geo. Dobbin, Forty-first and Chester avenue, Philadelphia, approximately $6,600.

Demolition and Removal of Buildings, Sheds, etc., Tenth to Eleventh, Lombard to Rodman streets, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, care of Frank H. Caven, Director, Room 113, City Hall. Lowest bid submitted by South Philadelphia House Wrecking Co., 1313 South Second street. Removing buildings, etc., and pay city $2,060.

Residence, Northeast Corner Durham and Ardleigh streets, Philadelphia, $15,000. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Stone, 3 stories, 42½x25 feet, and 2 stories, 14x16½ feet, slate roof, hot water heating, electric lighting, oak and pine floors. Owner will build.

Rooming House (alts.), 1324 South Broad street, Philadelphia, $3,500. Architect, private plans Owner, Enos L. Seeds, Wissahickon and Cliveden streets, Germantown. General alterations to residence, new partitions, electric work. Owner will build.

Contract No. 589, Frankford Elevated, Philadelphia. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Painting iron work from York to Unitey street. Lowest bidder: Griffey Decorative Co., 10 South Eighteenth street, Philadelphia. Item No. 1, $73,500; Item No. 2, $20,900; No. 3, 20 per cent.

Hospital (alts.), 410 Chestnut street, Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Marine Hospital, care of Dr. Collins, 410 Chestnut street, Philadelphia. Brick, 1 or 2 stories, 20x41 feet, stone foundations, hot water heating, electric lighting, composition roof, pine floors, metal lath, dampproofing. Lowest bids submitted by: Kober Const. Co., 34 South Seventeenth street, Item No. 1, $7,417; No. 2, $12,334; F. A. Foster Co., 43 South Seventeenth street, Item No. 1, $7,667; No. 2, $11,900.

Office Building (alts. and add.), Thirty-first and Chestnut streets, Philadelphia. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, on premises. Brick and steel, third story add., 49x20 feet, slag roof, cement floor, metal lath, iron work, extension of steam heat, electric lighting, plumbing, painting, glazing, carpentry, mill work. Architect has received bids.

Property (alts.), 1021-23 Arch street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Labor Institute, on premises. Carpentry, mill work, painting, glazing, hardware, plumbing, plastering, steel and iron work, roof repairs. Bond. Architect has received bids.

Store and Office (alts.), Southwest Corner Fifth and Allegheny avenue, $3,500. Architect, private plans. Owners, Northeast Realty Co., 3204 North Fifth street, Philadelphia. Raising bulk windows, brick wall with limestone facing, carpentry, mill work, glazing. Owners will build.

Parochial School (add.), Twentieth and Dickinson streets, Philadelphia. Architect, Emile G. Perrot, 801 Parkway Building, Philadelphia. Owners, St. Gabriel's Roman Catholic Church, care of Rev. J. J. Rooney, on premises. Stone, 3 stories, 38x127 feet, slate roof, maple floors, stone foundations, steam heating, electric lighting, iron work. Plans will be ready for bids in one month.

Supplies, Bureau of Water, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of Water, Director Frank H. Caven, 216 City Hall, Philadelphia. Cast iron pipe, filter sand, steel pipe and specials, sand pumps, wrought and vast iron pipes, holts and electric wiring. Owners taking bids due December 7th at noon. Information may be obtained at Room 796, City Hall.

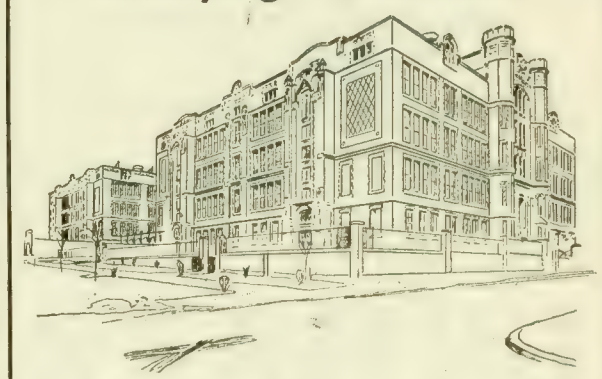
Bridges (2) (renovation), over Delaware River, connecting township of Lambertville, N. J., and New Hope, Pa., Byram, N. J., and Pt. Pleasant. Owners, State of Pennsylvania, care of T. W. Templeton, Superintendent of Public Grounds and Buildings, Harrisburg, Pa., Samuel B. Rambo, secretary. Furnishing labor and materials for cleaning and painting iron work. Owners taking bids due November 30th at noon.

Commercial Museum Buildings (painting), Thirty-fourth and Pine streets, Philadelphia. Architect, private plans. Owners, Philadelphia Museum, on premises. Owners, care of superintendent, taking bids due November 29th at noon.

Church and Sunday School, Fifty-sixth and Willows avenue, Philadelphia. Architects, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Sherwood United Presbyterian Church, care of Rev. D. C. Fulton, 5541 Willows avenue, Chairman Building Committee, Robert Jensen, 5714 Hatfield avenue, Philadelphia. Stone, 1½ stories, 63x69 feet, slate and slag roof, pine floors, stone foundations, steam heating, electric lighting. Architects ready for revised bids.

Auto Sales and Service Building, Southwest Corner Fifth and Allegheny avenue Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Northeast Realty Co., 3206 North Fifth street, Philadelphia. Stone foundations, brick work, structural steel work, slag roof, pine floors, steam heating, office partitions. Owners will build.

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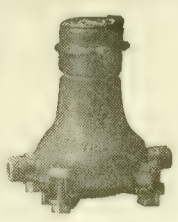
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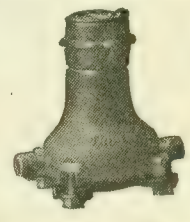
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Store and Apartments (alts. and add.), 1444 South Broad street, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, John M. Di Silvestro, care of architects. Brick and artificial stone, 1 story add., 18½x42 feet, slag roof, hardwood floors, vapor heating, electric lighting, marble work, plumbing, plate glass, flush bulks. Architects taking bids due November 26th. Penn Const. & Eng. Co. 3840 Spring Garden street; Anderson Woodworking Co., 1631 Ludlow street; Frank Lucci, 1603 Ellsworth street; Rocco Parisi, 1332 South Tenth street; Sutton & Stephenson, 1317 Washington avenue, and Cerasoli & Scurci, 1709 South Eleventh street, are figuring.

Residence (alts. and add.), School House lane and Henry lane, Philadelphia. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, D. H. Carstairs, West School House lane and Thirty-third, Philadelphia. Brick, 2½ stories, 24x24 feet, shingle roof, oak and pine floors, stone foundations, hot water heating, electric lighting, tile work, metal weather strip, iron work. Architect taking bids due November 26th. Fred Elvidge & Son, 5522 Germantown avenue; Samuel Harting, 20 East Johnson street; William H. Eddleman & Son, 453 Green lane; William J. Gruhler & Son, 219 East High street, and J. Sims Wilson Co., 1125 Brown street, are figuring.

Stores (alts.), 300-02 North Broad street, Philadelphia. Architects, Henry D. Dagit & Sons, 4627 Pine street, Philadelphia. Owner, John F. Cronin, on premises. Steel work, plastering painting, glazing, plumbing, steam heating, hardware. Architects taking bids due November 30th. Smith-Hardican Co., 1606 Cherry street; M. Melody & Son, 1322 Race street, and Basch & Co., Front and Reed streets, Philadelphia, are figuring.

Mint (alts.), Eighteenth and Spring Garden streets, Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. New slate roof, repointing to building. Owners taking bids due December 10th. Thomas Reilly, 1616 Thompson street, Philadelphia, is figuring.

Ban kand Office Building (add.), Southwest Corner Fifty-second and Market streets Philadelphia. Architect, Wesley Lesher Blithe, 608 Chestnut street, Philadelphia. Owners, Market Street Title & Trust Co., care of Alex. Wilson, Jr., President, on premises. Additional stories to present building, brick, concrete and steel, 90x120 feet, terra cotta, slag roof, oencrete and tile floors, electric lighting. Working plans in progress.

Apartment House (alts. and add.) 634 Pine street, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, David Salkind, 317 Spruce street, Philadelphia. Brick, 3 stories, 18x77 feet, slag roof, iron work, plastering, tile work, oak floors, carpentry, mill work, brick work, plumbing, heating and electric work. Architects taking bids due December 15th. Penn Const. & Eng. Co., 3840 Spring Garden street; Pierce Henon Co., Bulletin Building; Cerasoli & Scurci, 1709 South Eleventh street, and Frank Lucci, 1603 Ellsworth street are figuring.

Residence (alts. and add.) to (2) Stores and Apartments, 5438 Woodland avenue. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, John Hanf, Fifty-fifth and Woodland avenue, Philadelphia. Brick, third story add., 20x30 feet, slate and slag roof, pine and hardwood floors, plumbing, cement work, fireproofing, metal ceilings, flush bulks plate glass, marble work, electric lighting, hot water heating, stone foundations. Architect taking bids due as soon as possible. Jacob Bender, 1817 South Fourth street; Louis Swerdloff, 228 South Fifty-ninth street, and Charles Schnitzer, 2513 North Thirty(first street, are figuring.

Apartment House, Penn street and Oxford pike, Frankford, Philadelphia. Architects, Antrim & Conarroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick, 2 stories and basement, 40x140 feet, slag roof, electric lighting, pine and hardwood floors, stone foundations. Contract for foundations only awarded to Edw. Morrissy, 4345 North Seventh street. Architects will be ready for bids on superstructure after January 1st.

Garage, 1326-28 North Smedley street, Philadelphia, $3,000. Architect, private plans. Owner, Charles Yackie, 1333 North Seventeenth street, Philadelphia. Brick and steel, 2 stories, 32x70 feet, slag roof, electric lighting, cement floor. Owner will build.

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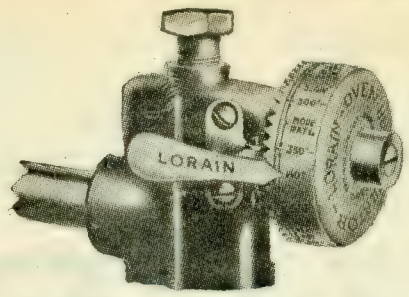


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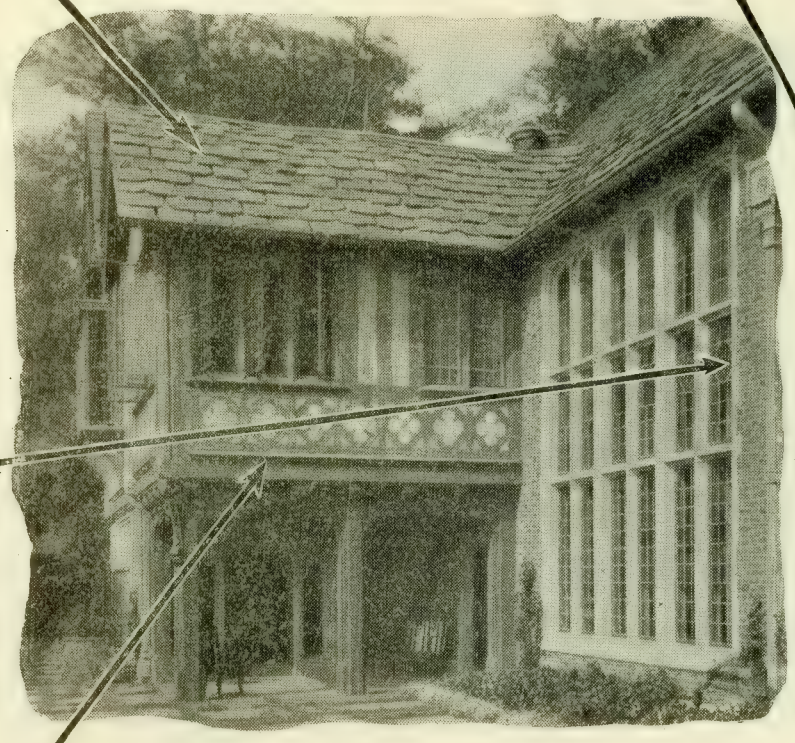
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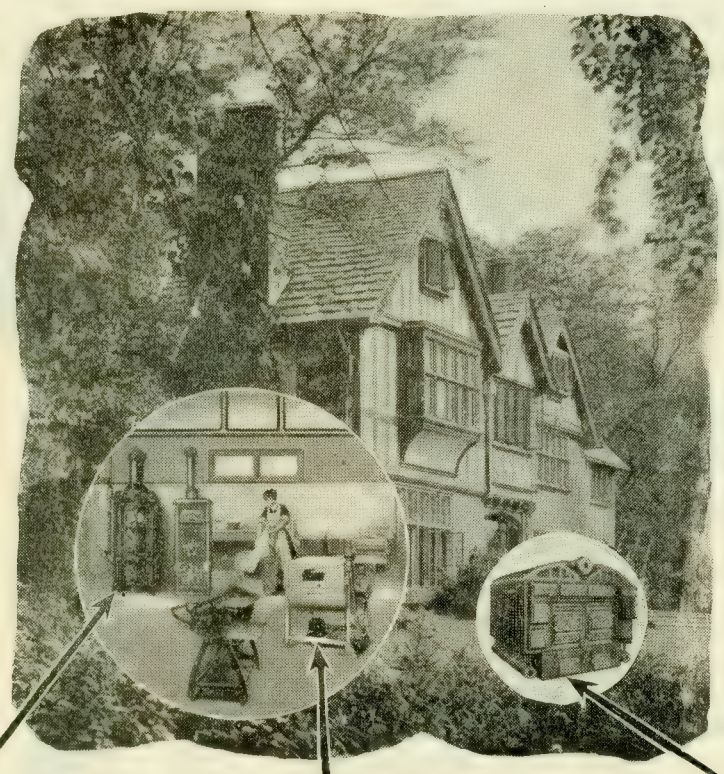
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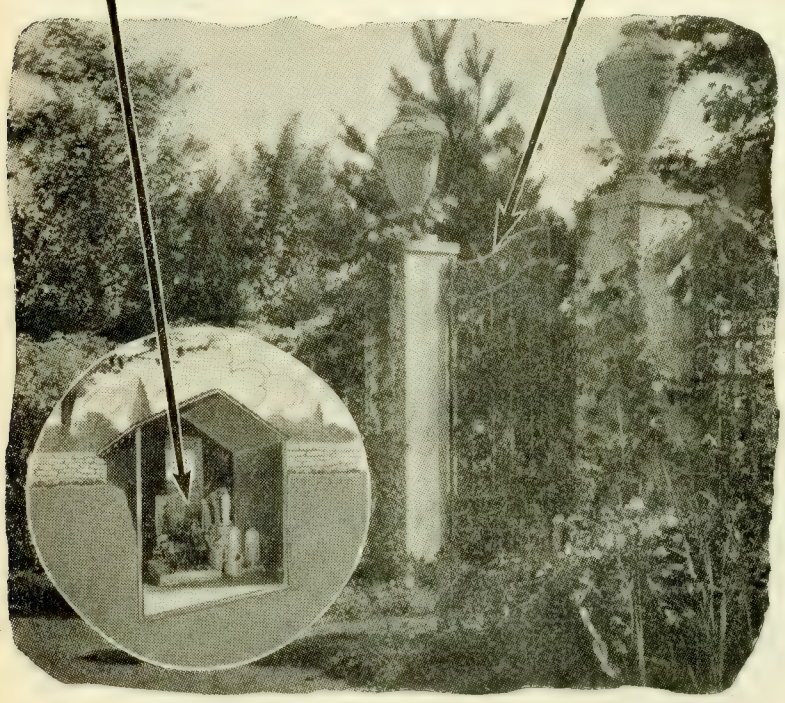
MINWAX

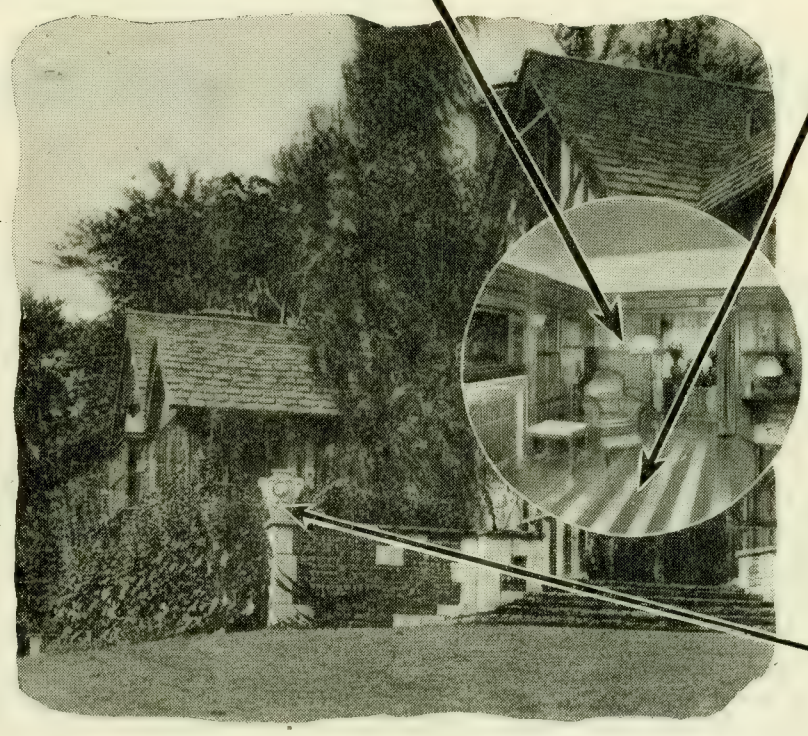
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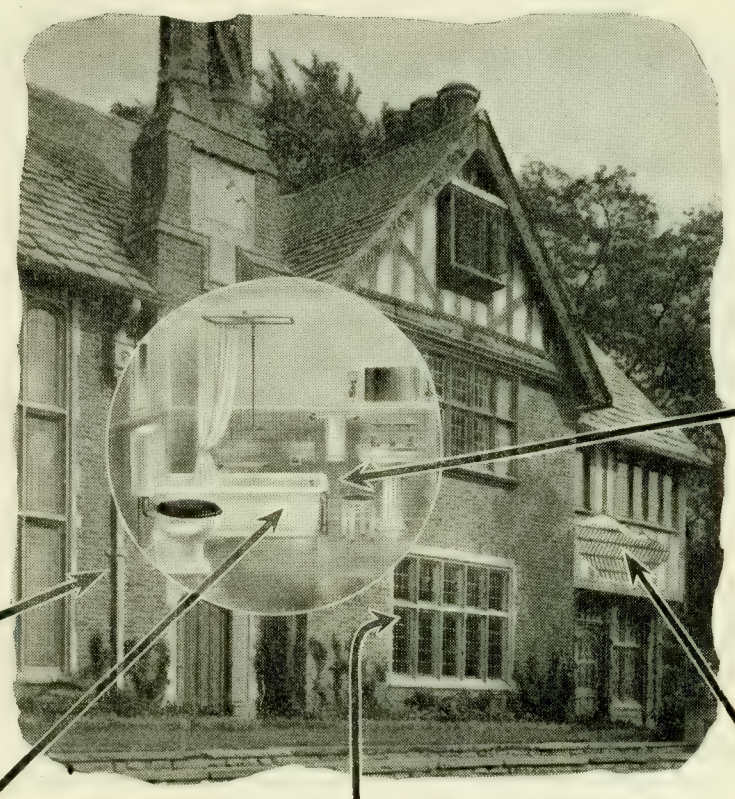
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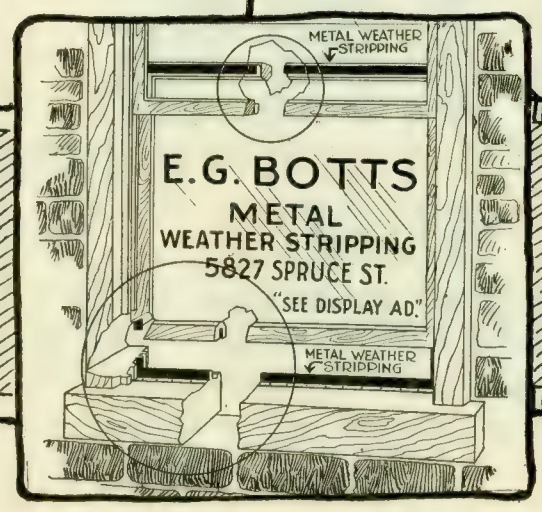
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bridges, 50 Laurel street, Philadelphia, $20,000. Architect, private plans. Owners, U. G. I. Co., Broad and Arch streets, Philadelphia. Steel, 60 feet long. Contract awarded to R. H. Beaumont Co., 319 Arch street, Philadelphia.

Residences (2), Rhawn street and Rowland street, $18,000. Architect, private plans. Owner, William H. Flood, 8019 Frankford avenue, Philadelphia. Brick, 3 stories, 17x54½ feet, asbestos shingle roof, hot water heating, electric lighting, pine and oak floors, tile work. Contract awarded to John H. McCloskey, 1020 Chestnut street, Philadelphia.

Building (alts.), 1111 Market street, Philadelphia, $3,500. Architect, private plans. Owner, Col. James Elberson, 1109 Market street, Philadelphia. Carpentry. Contract awarded to Roydhouse-Arey Co., Fidelity Building, Philadelphia.

Residence (alts. and add.) to Apartments, 1431 Diamond street. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owner, S. Stein, care of architect. New slag roof, plastering, marble and tile work, metal stairs, hardwood floors, carpentry, mill work, electric work, plumbing and heating. Contract awarded to A. M. Tatro, 1439 Arch street.

Residence (alts.) to Apartments, 2015 North Park avenue. Architect, Edwin L. Rothschild, 1011 Chestnut street, Philadelphia. Owners, Gustavus Josephs, 2020 North Park avenue, Philadelphia. Brick, 3 stories, general remodeling for apartments. Contract awarded to T. Wilkinson, 3639 North Ninth street, Philadelphia.

Grading Bridge Street Yard, Abutments, Retaining Walls and Foundations, Frankford Elevated, Philadelphia, $45,645. Owners, City of Philadelphia, Department of City Transit, care of William S. Twining, Director, 1211 Chestnut street, Philadelphia. Iron, steel and concrete work. Contract awarded to Thomas Connor, 3329 North Fifth street Philadelphia.

Residence and Office (alts. and add.), 259 South Seventeenth street, $10,000. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Dr. Fielding O. Lewis, on premises. Brick, 1 story, 6x14 feet, and 1 story, 15½x14 feet, tin roof, cement, marbleloid and cork tile floors, tile and marble work, carpentry, mill work, painting, glazing, copper skylights, hardware. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Residence (alts. and add.), 430 Allen lane, Germantown, Philadelphia. Architect, Carl A. Ziegler, Bailey Building, Philadelphia. Owner, Mrs. Francis B. Bracken, on premises. Electric work, new flooring, new heating, radiators, electric work, painting, glazing, plastering, carpentry, mill work. Work awarded on percentage basis. Carpentry awarded to William C. Wright, 22 Harvey street, Germantown, Philadelphia.

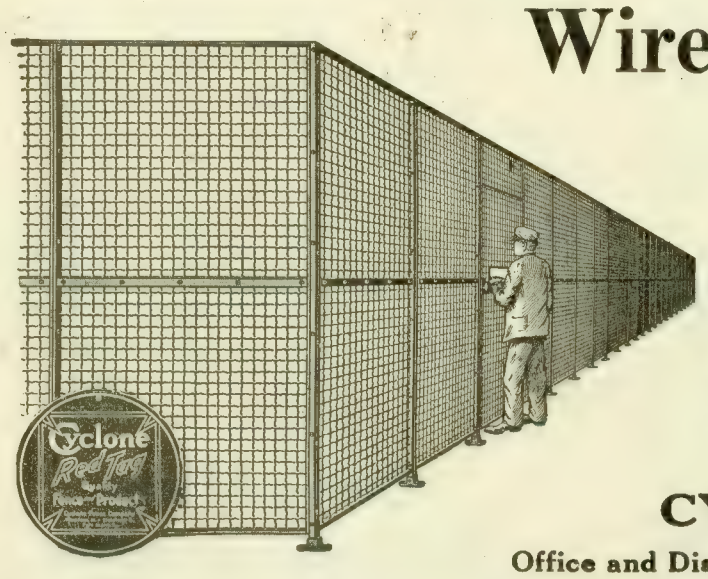
Store (alts.), 519 Market street. Philadelphia. Architects, Clark & Dudnick, Drexel

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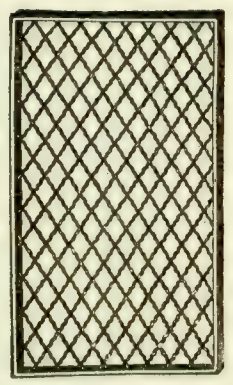


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Building, Philadelphia. Owner, Sklaroff Bros., 518 South street, Philadelphia. New front, marble base, flush bulk, plate glass, tile work. Contract awarded to M. Sklar, 628 Pine street, Philadelphia.

Garage, 4927-29-31 Kershaw street, Philadelphia, $5,000. Architect, private plans. Owner, Joseph Matteucci, 928 Fitzwater street, Philadelphia. Brick, 1 story, 26x90 feet, slag roof, cement floor, electric light. Contract awarded to Emidio Mazzaniti, 4930 Kershaw street, Philadelphia.

Wagon Shed, 1408 Reed street, Philadelphia. Owners, Supplee-Wills-Jones & Co., Twenty-first and Jefferson streets, Philadelphia. Brick, 1 story, 37½x78 feet, slag roof, concrete floors. Contract awarded to Kessler Cont. Co., Drexel Building, Philadelphia.

Store and Residence (alts.), 2002 North Broad street, Philadelphia, $10,000. Architect, private plans. Owner, A. Dydney Logan, 247 North Eighteenth street, Philadelphia. General alterations, hardwood floors, electric lighting. Contract awarded to F. C. Botwright, 1729 Kater street, Philadelphia.

Lumber Storehouse, Building No. 250, Frankford Arsenal, Philadelphia, $26,700. Architect, private plans. Owners, United States Government, Major J. Lumsden, Frankford Arsenal, Philadelphia. Brick and steel, 1 story, 242x80 feet, built-up roof, cement floors, stone foundations, iron work. Contract awarded to M. Melody & Son, 1322 Race street, Philadelphia.

Storage Building (alts.), Northeast Corner Thirty-sixth and Gray's Ferry road, Philadelphia, $16,000. Architect, private plans Owners, Martin Wilson Co., on premises. Concrete floors, steel sash, carpentry. Contract awarded to Henry P. Friend, Norristown, Pa.

Lubricating Building, Thirtieth street, North of Reed street, $7,000. Architect, private plans. Owners, Standard Eng. Co., 3027 Callowhill street, Philadelphia. Brick, 1 story, 46¾x82 feet, slag roof, steam heating, electric lighting, concrete floors, rolled steel sash. Contract awarded to J. F. Wolff, 772 North Forty-first street, Philadelphia.

PENNSYLVANIA Construction News

Residence, Melrose Park, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 70x31 feet, slate roof, hardwood floors, stone foundations, hot water heating, electric lighting, tile and marble work. Preliminary sketches being drawn.

Church, Sunday School and House, Marcus Hook, Pa. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Marcus Hook Baptist Church, care of architect. Stone, 1 story and basement, stone foundations. Too early for details.

Glass Plant, Lewistown, Pa. Architect, Frank A. Hayes, 914 Pennsylvania Building, Philadelphia. Owners, Pennsylvania Wire Glass Co., care of Walter Cox, president, Pennsylvania Building, Philadelphia. Steel frame, 175x600 feet, corrugated wire glass walls and roof, electric lighting. Plans in



Two Sides

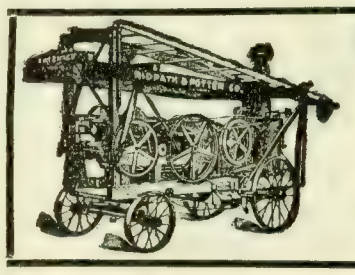
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progress.

Club House, Hollidaysburg, Pa., $60,000. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Blairmont Golf Club, Hollidaysburg, Pa. Hollow tile and stone, 2½ stories, irregular size, shingle roof, oak floors, steam heating, electric lighting, marble work. Plans about completed. Owners will take bids in three weeks.

New Annex to Moose Home, Pottsville, Pa. Architect, W .D. Hill, Pottsville, Pa. Owner, Loyal Orer of Moose, No. 411, Pottsville, Pa. Brick, 40x76 feet, concrete foundations, slag and tin roof, hollow tile and metal lath, maple floors, metal window guards, wire work, iron stairs, rolled steel skylights, mill work, tile work, electric lighting, hot water heating. Architect is taking sub-bids.

Building (alts. and add.), Fifth and Penn street, Chester, Pa. Architect, private plans. Owners, Peterson Bros., on premises. Hollow tile and stucco, 1 story, 18x75 feet, slag roof, composition floors, stone foundations. J. R. Wiggins & Co., Otis Building, Philadelphia, are taking sub-bids.

Bungalow, Pocono Mountains, Pa. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, name withheld. Frame, 1½ stories, 30x50 feet, composition shingle roof. Plans in progress.

Convent (add.), Ashley, Pa. Architect, Emile G. Perrot, 801 Parkway Building, Philadelphia. Owners, St. Leo's Roman Catholic Church, care of Rev. J. V. Hussie, on premises. Brick, 2 stories, slag roof, electric lighting. Plans in progress.

Factory, Cameron street, Harrisburg, Pa. Architect, not yet selected Owner, The Smith Waring Corp., 313 Market street, Harrisburg, Pa. Brick and steel, 9 stories. Too early for details.

Dairy Product Building, Lemoyne, Pa. Architect, Mr. Starr, Spooner Building, Harrisburg, Pa. Owner, West Shore Dairy Co., Lemoyne, Pa. Brick and concrete, fireproof, 2 stories and basement, 60x70 feet, concrete foundations, slag roof, cement, tile floors, steam heat, electric light, elevators, roof ventilators, rolled steel sash and skylights. Plans in progress.

arages (4) and Apartments (6), Derry and Fifteenth streets, Harrisburg. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, H. G. Day, Derry street, Harrisburg, Pa. Frame and brick, 3 stories, 25x90 feet, concrete foundations, felt roof, cement and pine floors, steam heat, electric light. Owner will sublet.

Hospital (add.), Front street, Harrisburg, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, care of architect. Brick, 3 stories and basement, 40x100 feet, brick foundations, slate roof, concrete floors, electric lighting, tile and marble work, metal lath. Architect taking sub-bids.

Department Store (add.), Market and Beaver streets, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owner, Bon Ton Department Store, on premises. Brick, steel, terra cotta, 4 stories, 65x152 feet, concrete foundations, slag roof, hardwood floors, steam heat, electric light, granite base, rolled steel skylights, roof ventilators, plumbing. Plans in progress.

Factory (alts. and add.), Franklin and Plum streets, Reading, Pa. Architect, Frederick Muhlenberg, Flanders Building, Philadelphia. Owner, W. G. Hollis Candy Mfg. Co., on premises. Brick, 4 stories, 20x80 feet, slag roof, slow burning construction, steam heating, electric lighting extensions. Plans in progress. Will be ready for bids in one month.

Pennsylvania Contracts Awarded

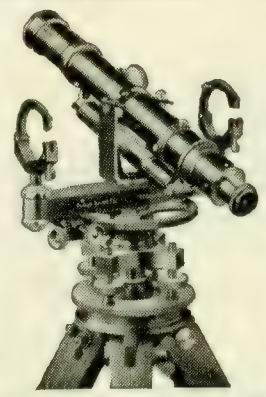
School, South Side, Bethlehem, Pa. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, Bethlehem School District ,care of E. Speck, president, Brodhead street and Packer avenue, Bethlehem, Pa. Brick, stone, concrete and steel, 2 stories, 255x76 feet, composition roof, brick and cypress floors, metal lath, safety treads, waterproofing, iron work, hollow metal doors, rolled steel skylights, hollow metal sash, terrazzo and tile work, stone foundations, furnace blast heating, electric lighting. Bond. Contract awarded to Forrest S. Speck, Bethlehem, Pa.

School, West Side, Bethlehem, Pa. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, Bethlehem School District, care of E. Speck, president, Brodhead street and Packer avenue, Bethlehem, Pa. Brick and stone, concrete and steel, 2 stories, 176x186 feet, composition roof, concrete and cypress floors, metal lath, safety treads, waterproofing, iron work, holloy metal doors, rolled steel skylights, hollow metal sash, terrazzo and tile work, electric lighting, furnace blast heating, stone foundations. Bond. Contract awarded to Frank J. Groman, Bethlehem, Pa.

Houses (1 pair), New Holland street, Lancaster, Pa. Architect, M. E. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Lancaster Real Estate Co., Lancaster, Pa. Stucco, 2½ stories, 22x39 feet, concrete foundations, slate roof, yellow pine floors, hot air heat, electric light, tile work. Contract awarded to Ray Clark, Lancaster, Pa.

New Jersey Construction News

Club House, Tavistock, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Tavistock Country Club, care of M. Littleton, Victor Talking Machine Co., Camden, N. J. Stone and frame, 1½ sto-



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ries, 100x40 feet, shingle roof, hardwood floors, electric lighting. Plans in progress.

Club House, Linwood, N. J. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Linwood Country Club, Linwood, N. J. Hollow tile and stucco, size and detail not decided. Revised plans in progress. Will take bids in one month.

Platform and Alterations, New York and Arctic avenues, Atlantic City, N. J. Architects, William F. Koelle Co., Twenty-sixth and Oxford streets, Philadelphia. Owners, Weisbrod & Hess Brewing Co., on premises. Mill work, platform, 12x40 feet, plumbing, electric work. Architects will build.

Hotel (alts.), Spring Lake, N. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, New Monument Hotel, Spring Lake, N. J. Alterations to dining room, carpentry, mill work, shingle roof, maple floor, electric work, hardware, plastering, steel and iron work. Contract awarded to George C. Newberry, Pt. Pleasant, N. J.

Miscellaneous Construction News

Residence (ext. and int. alts.), Seventeenth and Riverview streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Hardwood floors, electric lighting, tile work. Too early for details.

Swimming Pool, Laundry and Garage and Servants' Quarters, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick, stone, 2½ stories, irregular size, stone foundations, steam heat, electric light, tile work, floors varied. Plans in progress.

Labor Temple, Tenth and Tatnall streets, Wilmington, Del. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owner, Labor Temple Union Association, care of M. G. Sauter, 232 North Franklin street, Wilmington, Del. Brick, second and third story add., 40x110 feet, 60x30 feet, Barrett roof, pine floors, steam heat, electric light, terra cotta iron stairs. Architect is subletting.

Residence and Garage, Lewes, Del. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner, Roland Marsh, Lewes, Del. Frame and stucco, 2½ stories, 24x35 feet, garage, 1½ stories, 22x22 feet, shingle roof, brick foundations, cement, pine and oak floors, hot air heating, electric lighting, tile work. Revised plans in progress.

Buildings Spec. 4301, Bellevue, D. C. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete and brick, office and laboratory, 2 stories, 200x60 feet, machine and testing shop, 2 stories, 300x82 feet, pattern shop, 2 stories, 100x60 feet, foundry, 1 story, 100x60 feet, power house, 81x69 feet, built-up roof, wood, tile and linoleum floors, waterproofing, iron work, hollow metal doors, rolled steel sash, steel work, tile and marble work, electric lighting, steam heating. Contract awarded to Boyle-Robertson, Evans Building, Washington, D. C.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Nov. 18, 1920. Sealed proposals will be received at this office until 3 P. M., Dec. 10, 1920, and then opened, for new roof, repointing, etc., at the U. S. Mint, Philadelphia, Pa., in accordance with the specifications and drawings No. 8C, and 442, copies of which may be had at this office or at the office of the Custodian, in the direction of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

The election of seven directors of the Master Builders' Exchange to fill vacancies caused by expiration of terms of old directors was held last week and the following were elected: James S. Talley, William S. McCarthy, C. Stanley French, J. Walter Maxwell, S. W. Sinclair, James W. Pearce and Charles H. Fowler.

* * *

The partnership heretofore existing between Walter F. Ballinger and Emile G. Perrot trading as Ballinger & Perrot, has been dissolved. The business will be succeeded to and continued by Walter F. Ballinger, trading as The Ballinger Company. All accounts owing to the partnership will be collected by Walter F. Ballinger, except as otherwise notified, and all accounts owing by the late firm will be paid by Walter F. Ballinger at the offices, 329 South Broad St., Philadelphia, or 1328 Broadway, New York City.

BOARD OF TRADE BACKS OPEN SHOP

The labor majority has definitely cast aside the false teachings of the Socialist agitator as impracticable and has declared

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for the individual prosperity of the "open shop" principle, according to the Philadelphia Board of Trade, which recently went upon record in the unanimous adoption of the following statement:

'The Philadelphia Board of Trade is convinced that the employer of labor in all branches of industry should stand as a unit in opposing every effort, individual and organized, to graft upon American industry the 'closed' shop. The board holds:

"That no person should be discriminated against on account of his affiliation with or non-membership in labor organizations.

"That the management of business should be freed from the dictations of labor organizations and the employment of labor should be upon the basis of their equipment for the work in hand, and their discharge upon the proof of such lack of equipment or inability to comply with the just demands of such service.

"That the principle of fair dealing between employer and employee should characterize their relationship and form the basis of true Americanism and guarantee the stabilization of labor conditions."

This action followed a report by the Board's Committee on Domestic Production, which submitted that developments of the past few weeks indicate that those who have expressed confidence in the final good sense of the American workingmen have been confirmed in their faith in Americanism with assurance that the nation will continue its advocacy of the "open" shop.

It was pointed out that at present there are 540 organizations in 247 cities of forty-four States of the Union engaged in promoting the American principle in employment relations, and working upon the principle that labor's willingness to produce must afford the basis of individual prosperity, while capital is all essential in that it supplies the only practicable means of providing the tools wherewith the workmen may produce and market his products.

OPERATIVE BUILDERS TO PUSH RELIEF COMMITTEE PLAN

DECISION REACHED AFTER PROPOSAL OF G. W. NORRIS UNITING ALL ELEMENTS

Governor Sproul of Pennsylvania and Mayor Moore of Philadelphia will be asked to form a committee to consider housing legislation and means of housing relief in this city by officials of the Operative Builders' Association.

The decision was announced following the proposal of George W. Norris, Governor of the Federal Reserves Bank, who urged the formation of a body representing labor, builders, financiers, the State and city and all other agencies interested in relieving the acute shortage of dwellings here at present.

Mr. Norris urged the formation of the committee following a conference with officers of the Builders' Association, and declared that it should serve the purpose of balancing all factors in the situation and working out the most logical means of relief.

In addition he declared that facts concerning the shortage and the percentage of congestion which would be relieved by new building operations could be gathered and properly prepared for presentation to the State Legislature in case any bills were agreed on for presentation.

INDORSED BY BUILDERS

"We are in thorough agreement with Mr. Norris' suggestion that a committee representing all interests in the housing situation be formed without delay," said Daniel J. Crawford, president of the Operative Builders.

"We have heard so many favorable comments upon the plan today that it is our purpose to visit Mayor Moore and Governor Sproul and consult them on ways and means of organization. We will ask for the naming of a committee to deal with the situation and endeavor also to learn the views of the executives who are and will be most closely in touch with developments during the next six months."

Mr. Crawford after a consultation with other officials of the Builders' Association, including John N. McGarvey, Harry Bauer and J. Franklin Moss, declared that consultation with men high in financial circles have confirmed the association's statement that the drop in the cost of living is almost certain to stop when it reaches a rate about 100 per cent. above 1914 costs.

"We have been confirmed in our opinion that the present situation with its avalanche of falling prices is unusual," said Mr. Crawford.

"The condition has arisen through a combination of high money rates and restriction of credit added to a refusal of the consumer to take up merchandise quickly.

"The result is that many concerns are throwing seasonable goods on the market at very low prices and in larrge quantities. They are doing this because they must unload, but bankers with whom we have been in touch believe that the replacement value of new stock will be higher than this forced sale value, which we are now experiencing.

HINGES ON LABOR COST

"If common labor is going to be a basis of costs for the future and is to remain at fifty cents, then it is likely that new housing values will continue to be 150 per cent. in excess of the 1914 building prices.

"We builders figure that 50 cents an hour for unskilled labor is three times the 1914 rate, while $1 an hour for skilled labor is twice the 1914 rate. If that proportion continues, here is how the cost will figure out on a house that could have been built for $2,000 in 1914.

1914 cost	$2000
5 per cent. off for raw material	100
	$1900
Common labor 60 per cent. of total	$1140
Skilled labor 40 per cent. of total	$760
$1140x3	$3420
$760x2	1520
Raw material	100
Total	$5040

This cost of $5040 is borne out by our actual experience as builders and applies proportionately to all larger houses. We have prepared the following data, which shows how this matter is controlled by the cost of living and how living cost must be the real basis for fixing standards of value for houses to be erected next year.

"A report of the Department of Labor recently issued discloses the increased cost of living in Philadelphia from December, 1914, to June, 1920, to be 113½ per cent.

"The National Industrial Conference Board in their research report No. 30, recently issued, discloses the fact that the average cost of living thrughout the United States has increased 104½ per cent. between July, 1914, to July, 1920. This is based on the following table.

Budget Items.	Relative importance in family budget.	Increase in cost between July, 1914, and July, 1920.	Increase as weighted in total budget.
	P.C.	P.C.	P.C.
All items	100.0		104.5
Food	43.1	119	51.3
Shelter	17.7	58	10.3
Clothing	13.2	166	21.9
Fuel and light	5.6	66	3.7
Sundries	20.4	85	17.3

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"In analyzing this table we find that shelter is listed as having an increase of 58 per cent. and fuel and light 66 per cent. These figures must be very greatly increased when taking into consideration any increase in the present supply of shelter, which, at the present time, is costing at least 150 per cent. above the old rates, and there is very little doubt but that it will be necessary to increase the rates for fuel and light so that these items will represent an increase of not less than 100 per cent.

"Coal, one of the principal items, has increased in price from $7.15 per ton in 1914 to $14.80 per ton at the present time, and all of the public service companies furnishing gas and electric light are complaining bitterly that they cannot continue to give service at the present rates, so that it will doubtless be necessary to increase them.

"Taking these factors into consideration, the table would appear as follows:

	P.C.	P.C.	P.C.
Food	43.1	119	51.3
Shelter	17.7	150	26.5
Clothing	13.2	166	21.9
Fuel and light ...	5.6	100	5.6
Sundries	20.4	85	17.3
	100.0		122.6

"Granting that there will doubtless be some reduction in the cost for food and clothing, the indications are that the cost of living will not be reduced to less than 100 per cent. above the cost for July, 1914. If wages in the building industry are to be regulated in accordance with the increased cost of living, it would appear that the mechanics who formerly received an average of 50 cents per hour will be entitled to an average of $1 per hour.

"For many years common laborers were paid 17½ cents per hour, and it is generally admitted that this rate was not sufficient to pemit a man to provide the ordinary necessities of life for his family, and most employers will readily concede that this class of labor should have been paid a rate not less than 25 cents per hour under the old conditions, and, keeping this in mind, the rate for common labor should be about 50 cents per hour."

THE PERPLEXITIES OF FURNACEMEN REMOVED

COMMON SENSE BASED ON OBSERVATION AND EXPERIENCE REACHED CONCLUSIONS THAT ARE SUPPORTED BY SCIENCE

Do not allow any complaint about the trouble with the furnace find you perplexed as to what to do. Always be confident that the objectionable effect is the result of a cause. Then set about to find the cause by going over the various things which could produce the complaint.

In furnace heating systems what is intended to happen never happens until the fire is started. Then air in contact with any of the hot surfaces is heated, made lighter and must rise. And it will rise if there is provision for it to flow away without friction and other air to flow in as easily to take its place. The man who is a hair splitter will say the same bulk of air will weigh the same whatever the temperature, but to listen to him will cause more trouble, so forget it. Remember the air that fills a cubic foot of space gets lighter as the temperature rises.

Air expands with heat and the hotter it gets the less of it will be required to fill 1 cu. ft. of space. Consequently 1 cu. ft. of hot air is lighter than 1 cu. ft. of cold air. Again air expands and the same bulk is lighter as it is heated and in a properly arranged furnace system it must move. If it does not move, something is wrong and the reason can be found by searching along the line that it would move if it were unhindered. So the hindrance must be found.

A furnace is an air heater and some say a coal eater. It certainly cannot heat unless fuel is burned, but if it is burned it will heat. Sometimes coal is not properly burned, due to mismanagement, and less heat is available than is economical; consequently the fuel is wasted.

With the fire burning the fire pot and the radiators are hot so the air coming in contact with them must move if possible. To make it posible a supply of air must flow in constantly from somewhere.

THE SCOURCES OF AIR SUPPLY

In common practice air is taken from one of three places. One is from out-of-doors by means of a duct leading from an open window directly to the furnace with as few abrupt turns as possible. It is also taken from the room or cellar where the furnace is placed, and from the inside of the building and kept in circulation by means of one or several ducts.

From all three sources there are causes of complaint. If the supply is from out-of-doors, the wind may blow directly into the window from which it is taken and sometimes may drive more air into the furnace than it will heat. The dampers must be adjusted to stop some of it, and again the damper must be adjusted when the wind goes down to allow enough air to enter.

Then the wind may blow by the window and suck the air out of the furnace so that snow on the ground nearby will melt. This requires a guard to turn some of the air into the duct. The guard may be built by placing a three sided box over the window with two ends open, but with the top, bottom and one side closed. A vertical damper is placed in this box pivoted at the top and bottom at the side away from the window. Stops should be provided so that the damper can only blow far enough to let the air into the duct from whichever direction it flows and shunt it into the duct to the furnace. Wire screens over the openings will keep out leaves and other foreign matter.

The controlling damper in the duct should be made so that it cannot be shut more than two-thirds and so constructed and hung that under any conditions a strong wind will close it to that extent. To facilitate the inflow of air when the atmosphere is still, it should be so constructed as to afford the least friction possible. It should be air-tight and is best made of galvanized sheet metal. Where it is connected with a window, the glass sash should become a part of it near the top so that the light from outside will still be available in the cellar. There is an advantage in having it run under the floor from the window to the furnace. Then the duct should be carefully built and smooth and should enter a circular pit under the furnace. In the past a pier has been built in the center of the pit to support the weight of the furnace but it is belived better practice to use an I-beam to carry the weight so that the air can rise to the hot surfaces and air passages of the furnace without deflection or influence.

WHEN AIR IS TAKEN FROM THE CELLAR

If the air is taken from the cellar it is apt to cause trouble when the fire is cleaned or ashes removed, for any dust raised will be carried up with the air passing through the furnace. Again, when severly cold weather comes and snow banks the cellar windows, no air can get in and the furnace fails to send up warm air for heating the house. Then if the cellar door in the kitchen is opened, it will slam shut as the air from the different rooms in the house race to the cellar in a circulation movement which the hot furnace insures.

Sometimes a duct is run down from the window to within 1 ft. of the cellar floor. This provides plenty of air but makes the floor cold and does not stop the dust and dirt nuisance.

There has been quite a general increase in the use of air from within the building carried back from a register in the hall floor or from several registers in the

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colder points of the house. This method of air supply saves coal, aids the heating and is growing in popularity. In some instances 10 per cent. of the air supply is taken out-of-doors for the refreshing effect.

In some instances screens are put into the cold duct or there is built in the cellar a large chamber provided with screens covered with cheesecloth to catch the dirt carried by the air. If these screens are not frequently cleaned or renewed, they will fill up and prove a very effective damper against any flow of air through them.

TO DETERMINE SIZE OF AIR DUCT

This tells how to get the air to the furnace, and the importance of avoiding all possible friction should be again emphasized. Nothing has been said of the size of the air duct or the volume desired. That is governed by the combined area of the warm-air pipes, in the opinion of the most successful furnacemen.

In former times it was considered sufficient if the area were equal to two-thirds or three-quarters of the area of all the pipes, because, when heated, it was expected to expand enough to fill all the piping. This may be true when the weather is cold but in the early fall and late spring when the fire is still necessary and yet the temperature of the air out-of-doors may be about 40 deg., the larger duct is more desirable and the amount of air can be governed by dampers in colder weather.

Those advocates of an entirely out-of-doors air supply for health reasons overlook the fact that the house is ventilated only through the escape of the air around doors and windows or through open fireplace flues or in some similar way. They overlook the fact that any indirect heating system which carries heat along with the air, over-ventilates to a great extent and is consequently expensive. They overlook the fact also that so much ventilation is not essential and may be regarded as extravangant in the use of fuel.

When there is a complaint that some pipe from the furnace is not sending up warm air, if the duct arrangements or the supply is in accordance with what has been said, the cause of the trouble must be looked for at some other point. However frequentlly the air supply duct is too small in area and then it is not an uncommon thing for air to go down one warm-air pipe on the cold side and up a warm-air pipe on the other side of the house. Then the mingling of this cold air with the air warmed by the furnace reduces the temperature of the air flowing out from all of the hot air pipes and interferes with the heating of the furnace.

Where there is suspicion of something of this sort, a lighted match will show whether the current of air is up from the register or down into the register. Sometimes the failure of warm air to flow from different parts will be due to the fact that the controlling damper in the air duct needs attention and needs to be opened because there is less wind out-of-doors, or the out-of-door temperature is higher and more air should be allowed to pass through the furnace.

In almost all furnace calculations the warm-air pipe area, so far as the leaders in the cellar are concerned, is apt to be correct. But unfortunately in many instances the pipes are connected with risers that have nothing like the same area and consequently the flow of air is throttled down and there is a loss of heat through the pipes exposed in the cellar. Or quite frequently the pipes are connected with registers only 2 in. greater in diameter than the diameter of the pipe or when rectangular they are too small. Then the fretwork reduces the outlet area until the register serves very effectually as a damper to the flow and the air is held back to lose a good deal of temperature in cellar.

SIZE OF REGISTERS AND RISERS

Registers and risers should be of ample size and the free area of registers should preferably be somewhat in excess of the actual area of the pipe. A hot cellar frequently is caused by the outlets from the leaders from the furnace being too small to allow the heated air the leaders carry or the heat in the air they carry to flow to the point where it is needed. In consequence the heat is given off in the cellar, making it wasteful and hotter than is desirable if used for food storage.

There is opportunity for some reduction in the size of the leaders and the risers to rooms on the second and third floor, owing to the fact that the flow of air is more rapid to the upper rooms in proportion to their height above the furnace. To proportion the leaders for the first floor room, it is necessary to consider the heat required for the room. This is more due to the exposure and the amount of the exposure than it is to the cubical contents of the room. If a room is on the north or west side, it will require from 10 to 20 per cent. more air or heat than if it were on the opposite side of the building. If the room has two or three walls exposed, it will require at least two or three times more heat than if only one wall were exposed. It has been quite a common custom to figure the glass as the principal cause of heat loss in rooms artificially warmed in the winter season. Therefore the wall loss is based on the number of square feet of wall surface that will lose as much heat as 1 sq. ft. of glass surface. Often 4 sq. ft. of wall is considered equivalent to 1 sq. ft. of glass in transmitting or losing heat.

For first floor rooms where a generous provision is to be made and a certainty of success is desired, it is better to provide 1 sq. in. of warm-air pipe area for every ¾ sq. ft of glass surface or equivalent glass surface exposed. It is common practice to make 1 sq. in. to 1 sq. ft. and in some instances 1 sq. in. is reckoned to take care of even glass surface. This is not safe for either north or west rooms on the first floor, but it may give satisfactory results when applied to rooms on the second or third floor. In fact then 1 sq. in. may be able to take care of as much as 2 sq. ft. of equivalent glass surface on an upper floor with a southern exposure because, the first floor being warm, the warm air from it will rise in the halls and the ceiling of the warm first floor will transmit heat to the floors of the second floor rooms. Again it is seldom desired to maintain as high a temperature on the second floor as on the first floor.

With this method of getting at the size of the warm-air pipe for first floor rooms it is a simple matter to figure the sizes of the windows and doors which are considered equal in the heat losing power to the glass of the window. Then it is necessary to subtract this from the wall surface, divide the wall surface by 4, add it to the glass and door surface and then provide 1 sq. in. of warm-air pipe area for ¾ sq. ft. or equivalent glass surface. Then, when the area of the various pipes have been determined and added together, the size of the cold-air supply duct can be safely computed.

It is not an uncommon thing for people desiring ventilation to neglect to shut off the register while they will open the windows of a bedroom when it is occupied for sleeping. This lets the hot air flow out of the register as fast as the furnace can handle it and still will allow the cold air to enter the bed chamber and make the walls as cold as if they were out-of-doors. This makes a difficult room to heat in the morning and will carry off the heat from the other parts of the house. If the window is to be left open the register into the room should be closed by all means.

These are a few things which the man who is having complaint should keep before him. —*Sheet Metal Worker.*

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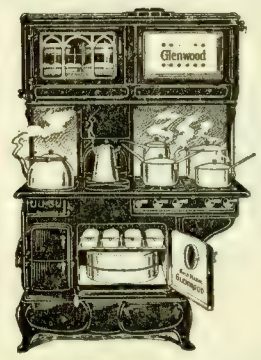
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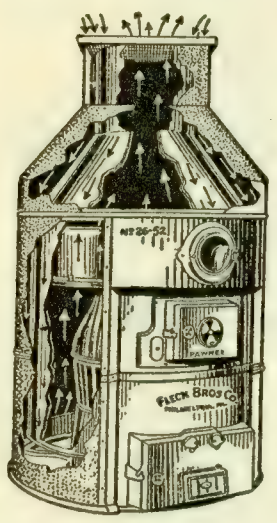


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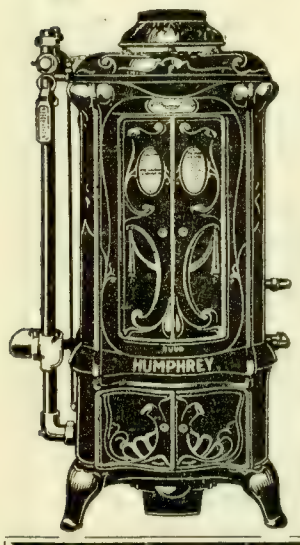
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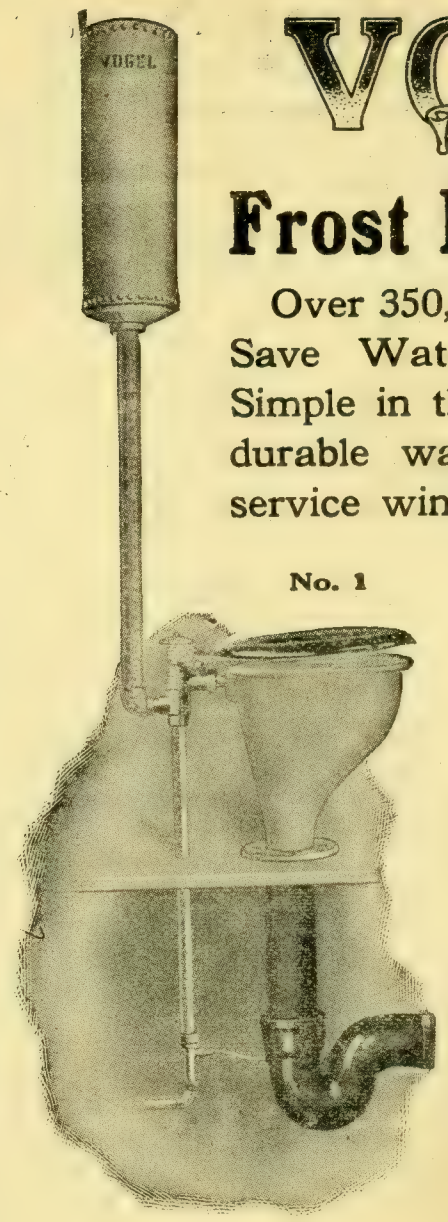
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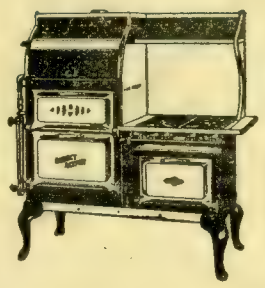
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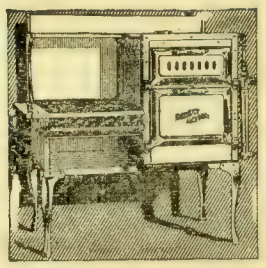


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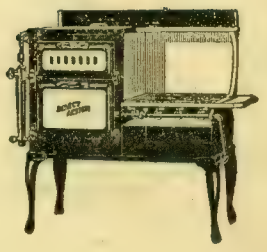
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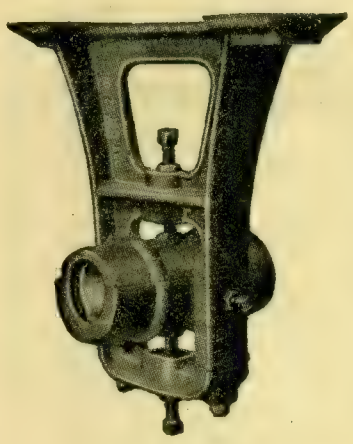
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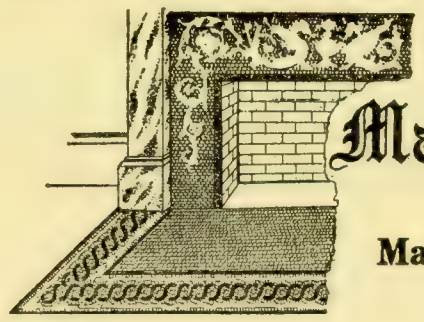
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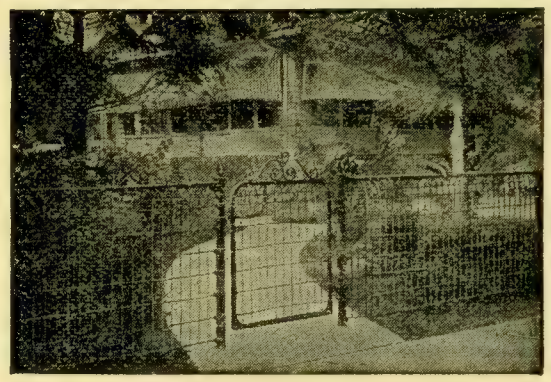
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 48

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December 1, 1920

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As The Editor Sees It

ANY indication of a reduction in the cost of building materials is very welcome at this time. The Flintkote Co., Inc., Manufacturers of Asphalt Shingles and Prepared Roofings have recently sent out an announcement to the effect that: Substantial price reductions ranging from 24% to 31% were effective November 16th. This concern manufactures asphalt shingles and prepared roofings—products which are used in great volume in connection with residential building, and on renewals and repairs.

This company operates four plants, and is affiliated with several other plants. With regard to shipping arrangements, this gives them numerous and logical shipping points from which they distribute to all parts of the country east of the Rocky Mountains.

From a statement sent out to the trade the Flintkote Company state, "We have revised prices for the purpose of re-establishing a basis upon which purchases may be made with confidence. By reductions ranging from 24% to 31% on important items we have sincerely endeavored to attain a price level from which further movements should be upwards.

We can only accept orders for limited quantities in accord with a uniform plan to insure fair and equal opportunity to all of our customers."

An expression from the Flintkote Company indicates that they have taken all the shrink in their inventory that raw material, conditions, or expectations will warrant.

It is interesting to note that they report a quick response from their trade, and orders indicate that moves of this kind are awaited by people who are ready to buy.

However, in spite of the small demand for construction, there is but little weakening in the price of building materials generally. "Cotton, wool, leather, sugar and grain prices have fallen," says the *American Conctractor.* Lumber prices have dropped and steel prices are weakening. The trend of prices is toward lower levels.

During the war all these essential staples were extended every aid and consideration. Government agencies were established to increase their production. Transportation facilities were placed at the producer's call, finance was devised for his assistance. The campaign was for increased production of cotton, of wool, of grain, of steel and lumber.

When the war ended with unexpected suddenness, vast stocks of these materials were on hand and in all the producing fields were efficient producing organizations. There had been a careful and studied effort not to interfere with producing organizations in these fields. They suffered the minimum inconvenience during the war.

What about the building material industry? From the very beginning this industry was called on to make every sacrifice conceivable. It was denied transportation facilities, it was discriminated against through prohibitive freight rates, it was denied coal and fuel on positive orders of the national fuel administration, finance was diverted from the material manufacturing field and from building projects. There was no accumulation of stocks and, what is vastly more important in its present effect on prices, the producing organizations of thousands of building material firms were actually dispersed and the labor diverted to other fields.

Here is the fundamental difference between conditions in the general market and conditions in the building material market. Lumber and steel, of all building materials, were the only ones to enjoy the protection essential to preserving their producing organization unimpaired. Lumber and steel products were diverted, it is true, to war needs, but production was stimulated rather than discouraged and producing organizations were preserved intact. Lumber prices now have fallen and steel prices are weakening.

Brick prices, in the face of a diminishing demand, have remained practicably stable; there has been no weakening in cement prices, sand and gravel shows no signs of materially lower prices.

Transportation and fuel are very important factors in the material market.

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The real hope for lower prices in brick and cement is in the price of coal. The coal operators have been profiteering. They have been black-jacking the public since and during the war. Coal prices can and must come down and cheaper coal will make cheaper brick and cement possible.

Knowing the tremendous demand that is piling up it is difficult to believe that spring prices will be below present levels in so far as the actual buying prices of materials are concerned.

This does not mean, necessarily, that construction costs will remain as at present. Labor is more prone to deliver a fair day's work, and the productive increase incident to improved efficiency is after all the chief factor in the downward tendency in construction costs. By spring transportation conditions are going to be better and the wasteful and expensive delays on account of the non-arrival of materials will be eliminated in construction costs. Continuous operation and maximum efficiency will make a very noticeable difference in construction costs.

* * *

The Architectural and Building Code Service, National Lumber Manufacturers, Association, of Chicago, has recently published and has ready for distribution a bound volume containing a series of plates of "Frame Construction Details." They have been published in 8½ x 11 size for the purpose of handy reference and convenience in filing.

Frame construction, unlike the various other types of construction used in the erection of smaller buildings, has grown from the various miscellaneous types which were developed by necessity in the days of our forefathers to the three distinct types, "balloon frame," "braced frame" and "Western frame," each of which predominates in certain sections of the country. These plates supply a great demand—a great need which has long existed, as they fully show the proper use of lumber in the three types. The valuable principles of economy and safety in construction of frame buildings are illustrated. Specific methods of fire stopping recommended as necessary to prevent the rapid spread of fire in buildings are also illustrated.

These principles and standards of construction when applied in practice will serve not only to reduce the wrong use of lumber, but encourage its proper use. This volume is invaluable to architects, engineers, draftsmen, and students of architecture, as it shows in large scale details the relationship of the various structural members and their function.

It is also of great value to contractors, carpenters and builders and the principles shown should decide many questions which are raised as to the proper method of framing a building.

Lumber merchants in developing the market in their respective localities can make valuable use of this volume, as it shows correct and economic types of frame construction. A man with slight experience should be able to take this book and list the framing lumber for a building, as the relationship of one structural member to another is clearly shown. It is a volume which should be in the hands of every one who is interested in the erection of frame buildings, as well as in the hands of every one who contemplates entering into the field of construction.

Copies may be secured from the Architectural and Building Code Service, National Lumber Manufacturers' Association, 750 McCormick Building, Chicago, at a cost of $1.00 for each copy desired.

* * *

When recently interviewed, Mr. Dwight P. Robinson, President of the Dwight P. Robinson & Co., New York said: "Now that the election is behind us and the general uncertainty from that quarter removed, it is my feeling and that of my associates that a strong revival of general business activity will soon be evidenced in all parts of the country. The demand for living accommodations and office space must be met; to take care of their rolling equipment the railroads must build new terminals and shops deferred by the war; public utilities generally are being granted sufficient rate increases to permit operation at a profit, and the money will therefore be available for the vitally necessary extensions to power, lighting and traction properties; many manufacturing plants must further increase their production by building plant extensions.

"With these facts in mind, the belief must be general that an almost unprecedented volume of construction must be executed in the coming year."

* * *

To convert the postal savings bank system into a national building and loan association from which people may borrow money required to build homes at reasonable interest rates, is the novel suggestion of Representative M. Clyde Kelly, of Pennsylvania. He suggests elimination of the present $2,500 limit on deposits and increase of the present interest rate of two per cent. to encourage deposits.

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Riding Academy, Southeast Corner Twenty-fifth and Callowhill streets, Philadelphia. Architects, Hance, Neely & Mitchell, 2126 Pine street, Philadelphia. Owners, Parkside Riding Academy, care of Edwin J. Spriggs, on premises. Steel frame, corrugated siding and roof, 80x100 feet, electric lighting, hollow metal sash. Architects taking bids due as soon as possible. Penn Const. & Eng. Co., 3840 Spring Garden street; Penn Building Co., Broad and Venango streets, and J. F. Trent, 2041 Master street, are figuring.

Store and Apartments (alts.), Sixth and Turner streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, name withheld. General alterations. Plans in progress.

Store Front, 1231 Market street, Philadelphia. Architect, private plans. Owners, Endicott-Johnson Shoe Co., Scranton, Pa. Marble work, copper work, oak floors, tile work, electric work, painting. Owners taking bids due as soon as possible. Pierce Henon, Bulletin Building, Philadelphia, are figuring.

Residence (alts.), 1505 Spruce street, Philadelphia, $4,500. Architect, private plans. Owners, Realty Adjustment Co., Pennsylvania Building, Philadelphia. Carpentry, mill work, tile and marble work, painting, glazing, plastering. Owners will build.

Steel Superstructure, Station Platform and Construction, Frankford Elevated, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, care of William S. Twining, Director, 1211 Chestnut street, Philadelphia. Cont. No. 585, steel work in Frankford avenue and Bustleton avenue adjacent to Bridge street. Owners taking bids due December 7th. **Station Platforms,** Cont. No. 548, at Front and Fairmount avenue. Owners taking bids due December 14th. **Car Inspection Shop,** Penn street above Bridge street. Cont. No. 591. Owners taking bids due December 21st. Plans and specifications may be secured from Department of City Transit. Deposit of $10.00 required on each set of plans.

Church and Sunday School, Fifty-sixth and Willows avenue, Philadelphia. Architect, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Sherwood United Presbyterian Church, care of Rev. D. C. Fulton, 5541 Willows avenue, Chairman Building Committee Robert Jensen, 5714 Hatfield avenue, Philadelphia. Stone, 1½ stories, 63x69 feet, slate and slag roof, pine floors, stone foundations, steam heating, electric lighting. Architects taking bids due November 30th. (Revised.) Robert E. Lamb Co., 843 North Nineteenth street; Thomas C. Trafford, 1613 Sansom street, and Penn Const. & Eng. Co., 3840 Spring Garden street, are figuring.

General Repairs, various schools, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Board of Education, care of John C. Cassell, Nineteenth above Chestnut street, Philadelphia. Miscellaneous repairs and alterations, carpentry, heating, electric work. Owners are ready for bids due December 7th.

Garage, Bristol street, East of Fifteenth street, $4,000. Architect, private plans. Owners, Fred Zimmerman, 1430 Bristol street, Philadelphia. Brick, 1 story, 17x66½ feet, slag roof, cement floors, electric lighting. Owner will build.

Pit for Coke, 50 Laurel street, Philadelphia, $12,000. Architect, private plans. Owners, Northern Liberty Gas Co., on premises. Concrete, 14½ feet deep, 19½ feet wide, 94½ feet long. Owners will build.

Store Building, 1229 Market street, Philadelphia. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owners, Goodlow Corporation, care of architect. Concrete, steel and brick, 3 stories, 175x39 feet, slag roof, composition floors, hollow tile, metal lath, waterproofing, iron stairs, hollow metal doors and sash, rolled steel skylights, tile and marble work, steam heating, electric lighting, stone foundations. Bond. Architect taking bids due December 4th. Frank G. Stewart, 1619 Sansom street; R. C. Ballinger & Co., 218 North Thirteenth street; Cramp & Co., Denckla Building, and Barclay White & Co., 1713 Sansom street, Philadelphia, are figuring.

Weightman Hall (alts.), University of Pennsylvania, Philadelphia. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Additional exits, painting, glazing, electric work, terra cotta, hardware, carpentry, mill work, cut stone and iron work. Architect has received bids.

Bridge (repairs), Chestnut street over Schuylkill River. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, care of Frank H. Caven, Room 232, City Hall, Philadelphia. General repairs. Owners taking bids due December 8th at noon in Room 216.

Building, 1946 Market street, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1424 South Penn Square. Architects taking bids due December 13th. Ketcham & McQuade, 1029 Brown street; Frank G. Stewart, 1619 Sansom street; Pierce-Henon Co., Bulletin Building, and P. M. Sax, Franklin Bank Building, are figuring.

Building (alts. and add.), 1803-05 Spring Garden street, Philadelphia. Architect, private plans. Owner, Board of Trustees, United Brotherhood of Carpenters and Joiners of America, on premises. Iron work, concrete work, hollow metal skylights, roof repairs, kalamein doors, mill work, carpentry, maple floors, composition floors, painting, glazing, metal lath, plastering. Owners taking bids due December 2nd. William R. Dougherty, 1610 Sansom street; Pierce-Henon, Bulletin Building; E. E. Hollenback, Inc., 1804 Brandywine street, are figuring.

Store and Apartments, 331 South street, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, I. Kaplan, Northeast Corner Fourth and South streets, Philadelphia. Brick and steel, 2 stories and basement, 20x152 feet, slag roof, hardwood floors, metal lath, metail ceilings, waterproofing, flush bulks, plumbing, tile and marble work, electric light, hot water heating, stone foundations, terra cotta. Plans about completed. Owner is ready for bids.

Store and Apartments (2), near Twelfth and Pine streets, Philadelphia. Architect, C. Henry Wilson, 2nd, 2028 West Berks street, Philadelphia. Owner, name withheld. Brick, 3 stories, 36x78 feet, slag roof, hardwood and pine floors, metal ceilings, metal bulks, stone foundations, hot water heating, combination lighting, tile work. Plans in progress.

Storage, 45-51 Laurel street, Philadelphia, $4,500. Architect, private plans. Owner, E. F. Howard, on premises. Brick, 1 story, 60x70

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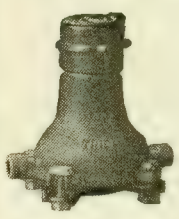
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Garage, 623-29 Christian street, Philadelphia. Architect, John F. Shea, 411 Bulletin Building, Philadelphia. Owner, Dominick Montella, 718 Fulton street, Philadelphia. Brick, 2 stories, 58 feet and 73x74 feet, slag roof, steam heating, electric lighting, cement and pine floors. Owner will build.

Fire Houses (2), No. 24, Twentieth and Federal streets, and No. 4, Sixteenth and Sansom street, and Truck No. 11, Twelfth and Wharton streets, Philadelphia. Architect, John P. B. Sinkler, 826 City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, City Hall. General alterations and additions. Plans completed. Owners will take bids in one week.

Foundations for Central Library, Nineteenth to Twentieth, Parkway, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, care of Librarian John Ashhurst, Thirteenth and Locust streets, Philadelphia. Concrete and steel. Revised plans completed. Architects are ready for bids, due December 21st.

Municipal Pier, Chestnut street, Delaware River, Philadelphia. Architect, John P. B. Sinkler, 826 City Hall, Philadelphia. Owners, City of Philadelphia, Department of Wharves, Docks and Ferries, Bourse Building, Philadelphia. Steel and concrete, double-deck, 80x550 feet. Working plans in progress.

Building (alts. and add.), 251 South Sixth street, Philadelphia. Architects, Joseph M. Huston & Stanford B. Lewis, Dexter Building, Philadelphia. Owners, Presbyterian Board of Publication and Sabbath Schools, Witherspoon Building, Philadelphia. Brick and steel, 1 story, 36x42 feet, slag roof, pine and composition roof, metal lath, elevators, metal ceilings, iron work, hollow metal and fire doors, rolled steel sash, electric lighting, steam heating, stone foundations. Architects taking bids, due December 3rd. H. E. Baton, 1713 Sansom street, and Graham & Wells, 3649 Filbert street, are figuring.

Building (alts.), 940-42 Lombard street, Philadelphia. Architect, T. Frank Miller, 1012 Walnut street, Philadelphia. Owners, Chas. Eneu Johnson & Co., Tenth and Lombard sts., Philadelphia. Interior alterations, steam heating, plumbing, oak floors. Architect is taking sub-bids.

Residences (2) (alts. and add.), 3425 Walnut street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Philadelphia Branch of United Synagogue of America, care of architects. Brick, 1 story, 16x36 feet, slag roof, pine and composition floors, tile work, steam heat, electric lighting. Architects will be ready for revised bids in a few days.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Hotel (alts.), 1222-24-26 Locust street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Y. W. C. A., Eighteenth and Arch streets, Philadelphia. Carpentry, mill work, metal lath, plastering, steel work, painting, glazing. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Storage Building, Northeast Corner Thirty-second and Allegheny avenue, Philadelphia, $20,000. Architect, private plans. Owners, Reyburn Mfg. Co., Twenty-third and Allegheny avenue, Philadelphia. Iron, 1 story, 48½x176 feet. Contract awarded to William Steele & Sons Co., Sixteenth and Arch streets.

Store Building (alts.), 443 South street, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Stores Co., 44 West Eighteenth street, New York City. Carpentry, mill work, plastering, metal ceilings, heating alterations, electric work, cement work, painting, glazing. Contract awarded to Goldberg & Fein, 44 West Eighteenth street, New York City, care of United Cigar Stores Co.

Garage, Southeast Corner Jasper and Willard streets, Philadelphia, $4,500. Architect, private plans. Owners, Hascher Bros., 3300 Kensington avenue, Philadelphia. Brick, 1 story, 30x52 feet, slag roof, hot water heating, electric lighting, cement floors. Contract awarded to Carr & Trainor, 3550 Jasper street, Philadelphia.

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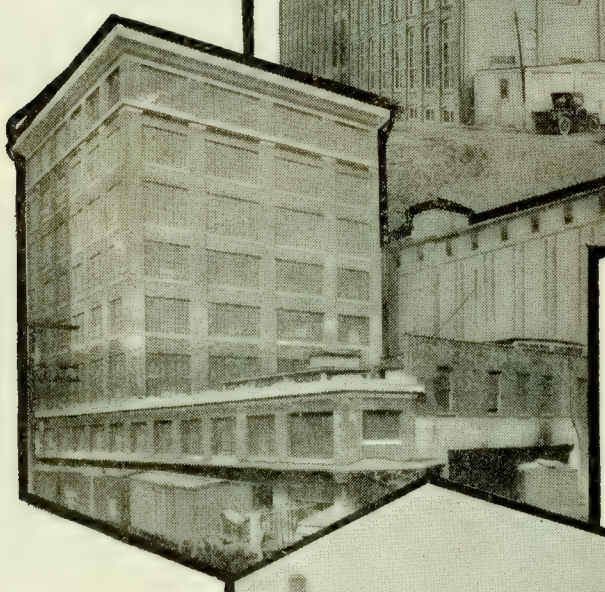
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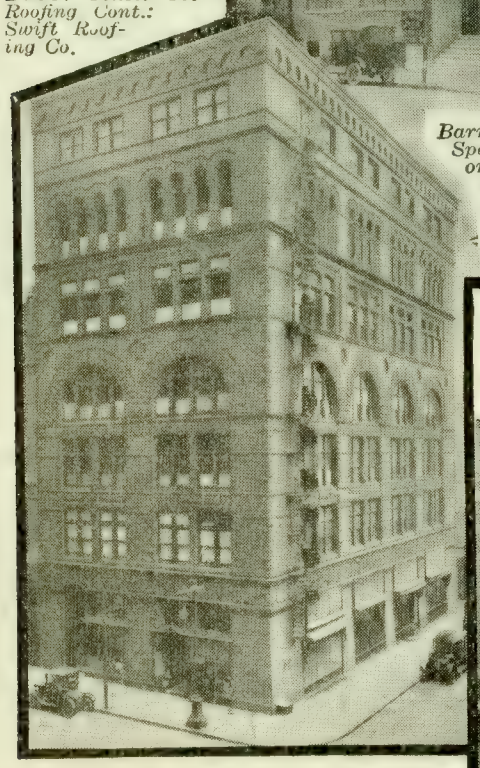
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Barrett Specification 20-Year Bonded Roof on building of Plant Milling Co., St. Louis, Mo. Arch. & Eng.: Lichter & Jens. Gen'l Cont.: Fruin-Colnon Cont. Co. Roofing Cont.: St. Louis Roofing Co.



(Below) Barrett Specification Roof on Exchange Building of Southwestern Bell Telephone Co., St. Louis, Mo. Arch.: I. R. Timlin Engineering Dept. Gen'l Cont.: Murch Bros. Const. Co. Roofing Cont.: Swift Roofing Co.



Barrett Specification 20-Year Bonded Roof on building of Johnston Tin Foil & Metal Co., St. Louis, Mo. Arch.: C. H. Deitering. Gen'l Cont.: Murch Bros. Const. Co.



(At Left) Barrett Specification 20-Year Bonded Roof on building of Ely & Walker Dry Goods Co., St Louis, Mo. Arch.: Eames & Young. Roofing Cont. Columbia Roofing Co. Gen'l Cont.: Jas. Stewart & Co., Inc



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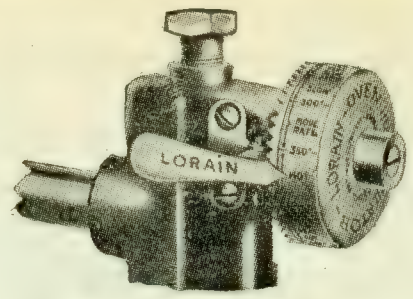
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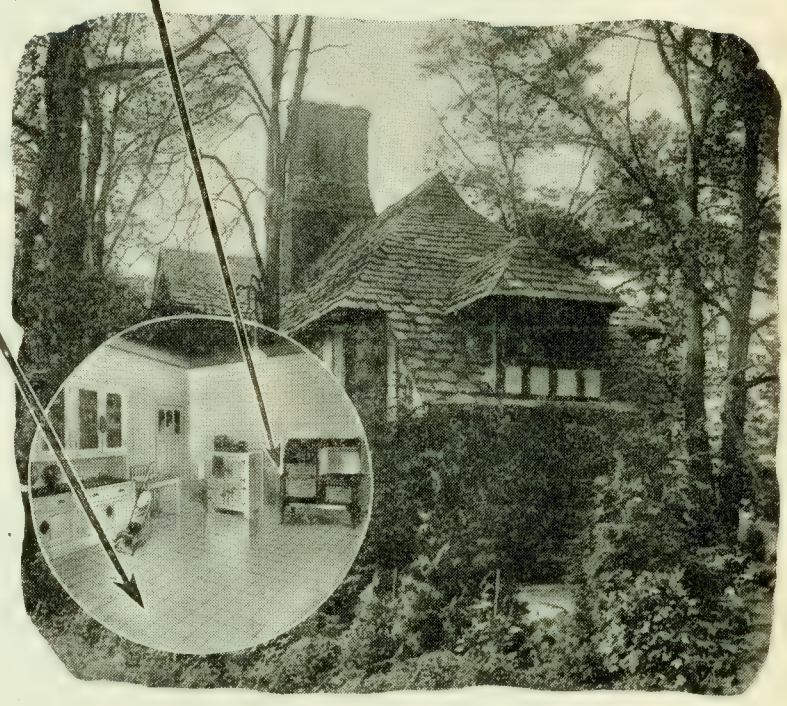
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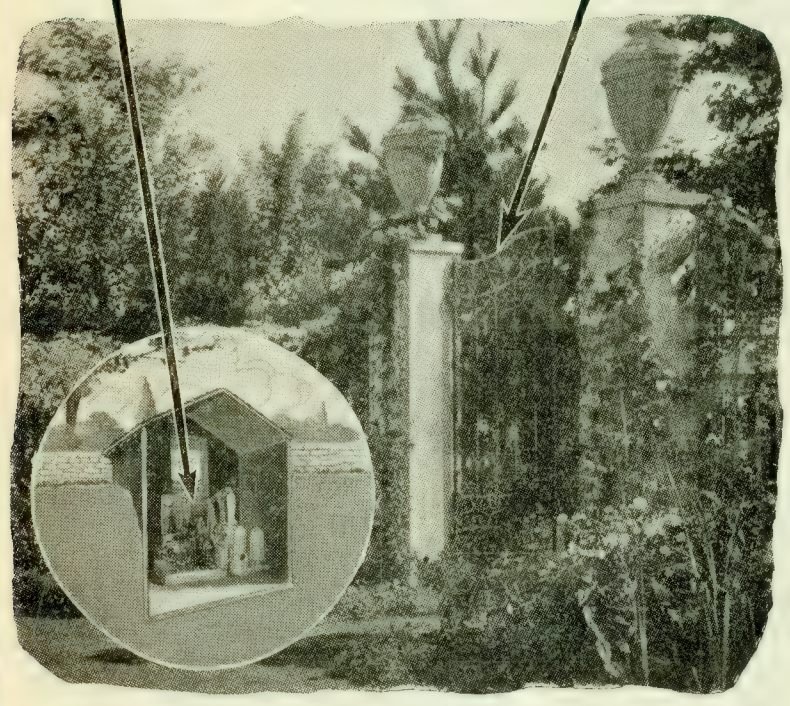
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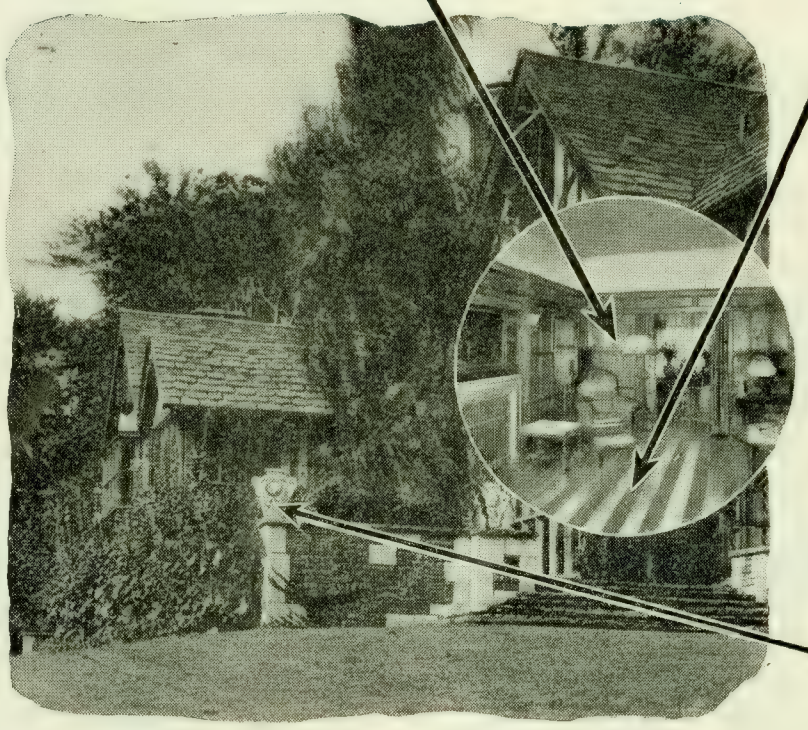
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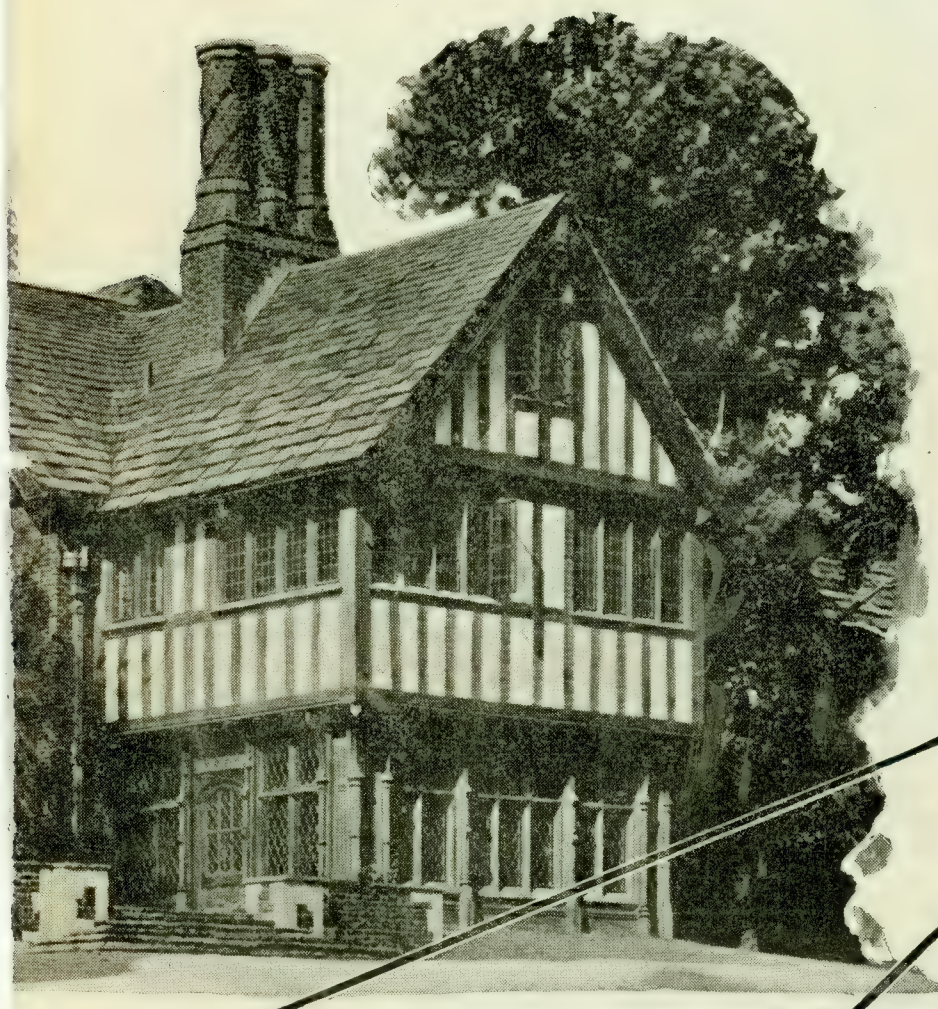
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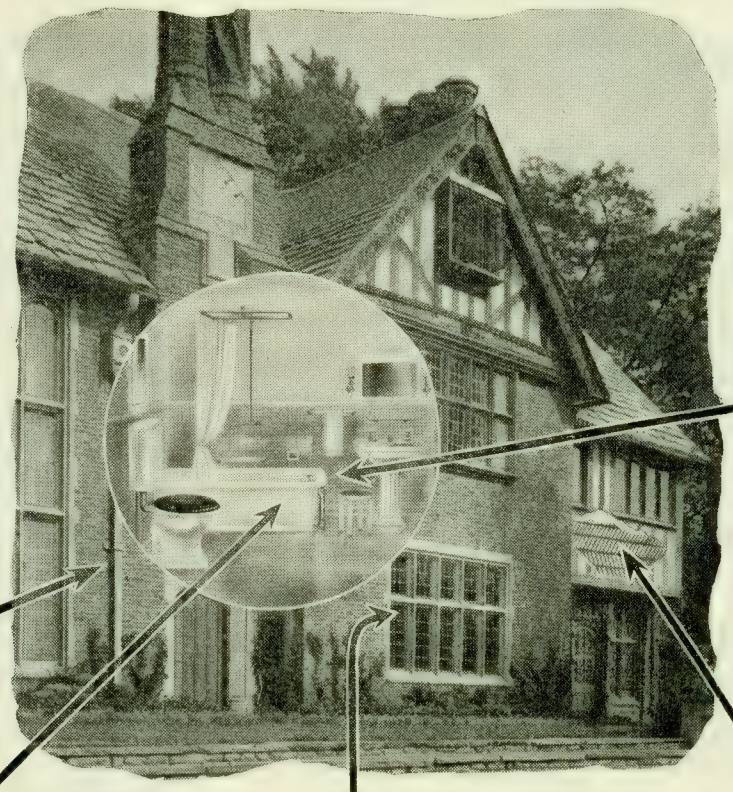
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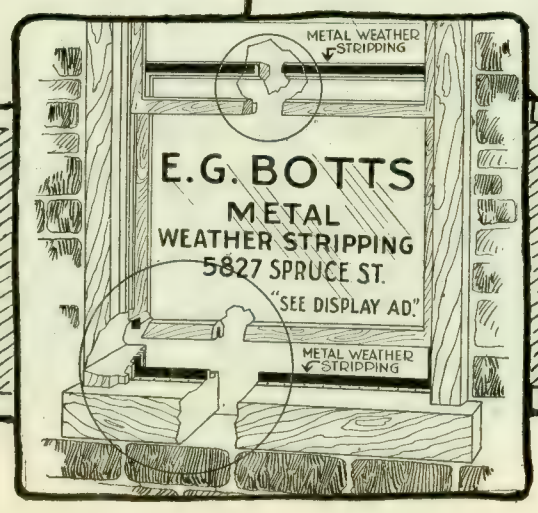
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Bakery (alts.), Southeast Corner Broad and Butler streets, Philadelphia, $10,000. Architect, private plans. Owners, Kolb's Bakery, on premises. Enlarging basement, excavation and stone work. Contract awarded to H. C. Ambler, 3713 Old York road, Philadelphia.

Residence (remodeling) into Locker House and Shower Room, Roxborough, Philadelphia. Architect, J. S. Fuller, 1537 Chestnut street, Field Office, 6937 Ridge avenue, Philadelphia. Owners, Green Valley Country Club, Roxborough, Philadelphia. Stone, 1 story add., 26x15 feet, composition and cement floors, electric lighting, heating, plumbing and fixtures, new partitions. Contract awarded to William H. Eddleman, 453 Green lane, Roxborough, Philadelphia.

Residence (alts.), 442 Harmon road, Philadelphia, $5,000. Architect, private plans. Owner, William J. Plutt, on premises. General interior alterations. Contract awarded to Warren Brown, Ridge avenue, Roxborough, Philadelphia.

Stores and Offices (2) (alts. and add.), 857-859 East Allegheny avenue, $4,500. Architect, private plans. Owner, Mary E. Doyle, 4129 North Broad street, Philadelphia. Brick 1 story, 11x30 feet, slag roof, electric lighting, hardwood floors, general alterations. Contract awarded to R. R. Rafferty, 4128 North Broad street, Philadelphia.

Building (fire repairs), 1235-37 Vine street, Philadelphia, $2,400. Architect, private plans. Owner, Harris M. Smith, 4010 Spruce street, Philadelphia. General restoration. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Building (alts.), Northwest Corner Overbrook and Lancaster avenues, $2,500. Architect, private plans. Owner, Thomas Cooper McCahan, on premises. Porch enclosed, carpentry and mill work. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Garage, 629 Church lane, Philadelphia, $2,800. Architect, private plans. Owners, Frank J. Stokes, on premises. Brick, 1 story, 21x24 feet, electric lighting, cement floors. Contract awarded to Fred Walker, 321 East Chelten avenue, Philadelphia.

Machine Shop, Delaware avenue, south of Shackamaxon street, $27,000. Architect, private plans. Owners, Pennsylvania Sugar Co., 1037 North Delaware avenue, Philadelphia. Brick and steel, 2 stories, 51x72 feet and 56x58 feet, slag roof, concrete floors. Contract awarded to O'Meara Const. Co., 253 South Quince street, Philadelphia.

Store and Dwelling, 7134 Rising Sun avenue, $4,500. Architect, private plans. Owner, George Di Mucci, 908 St. Vincent street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting, pine floors. Contract awarded to M. Stevens, 926 St. Vincent street, Philadelphia.

Dwelling (alts. and add.), 111 West Durham street, $3,000. Architect, private plans. Owners, Chas. Henry Gummey, Delmar-Morris, Germantown, Philadelphia. Brick, 2 stories, 14x10 feet, slag roof, hot water heating, electric lighting, pine floors. Contract awarded to Henry W. Fletcher, 5600 Germantown avenue.

Store (alts.), 1309 Market street, Philadelphia, $3,000. Architect, Frank E. Hahn, Bailey Building, Philadelphia. Owner, Truly Warner, on premises. Lessees, Feltman & Cunne, Chicago, Ill. New entrance. Contract awarded to La Salle Woodworking Co., Chicago, Ill.

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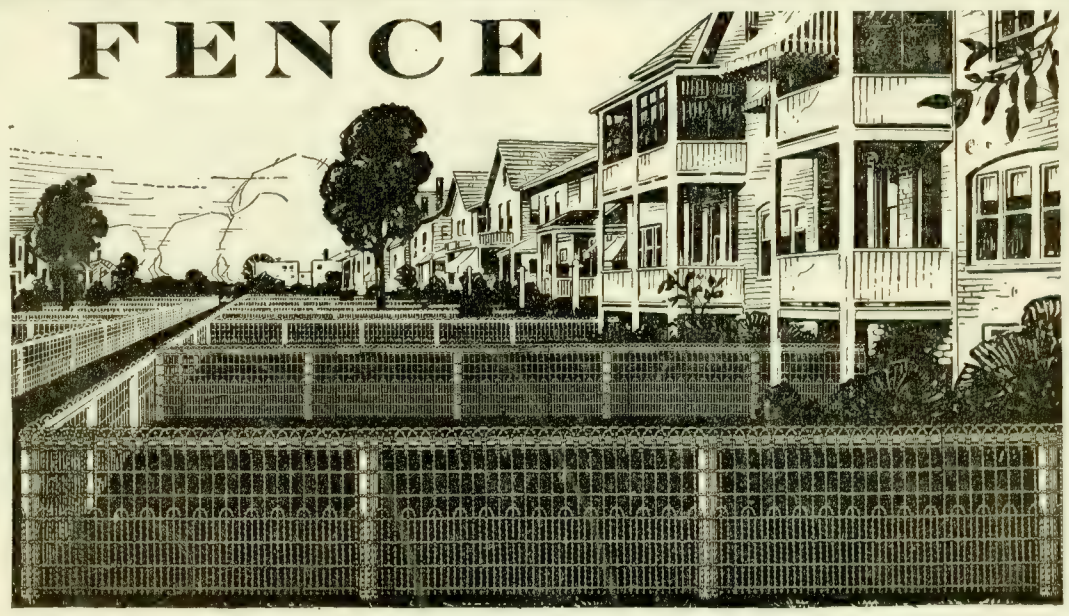
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Store and Dwellings (2), southeast corner of Seventeenth and Lombard streets and 505 South Seventeenth street, Philadelphia, $3,000. Architect, private plans. Owner, Austin Wolfe, 509 Penfield Building, Philadelphia. General alterations. Contract awarded to Jacob Gorchov, 4116 Girard avenue, Philadelphia.

Fire Escape, 2100 Chestnut street, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Girard Trust Co., Broad and Chestnut streets, Philadelphia. Brick work, painting, tin roof, iron fire escape, plastering. Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

Factory (add.), D street, north of Ontario street, Philadelphia, $38,000. Architect, private plans. Owners, Ontario Dyeing Co., on premises. Brick, concrete and steel, 1 story, 61½x130 feet, slag roof, steam heating, electric lighting. Contract awarded to F. Crompton & Bros., 4614 Oakland street, Philadelphia.

PENNSYLVANIA
Construction News

Hotel, Bethlehem, Pa. Architects, Ritter & Shay, 507 North American Building, Philadelphia. Owners, Bethlehem Hotel Corporation, care of William J. Holler, President, Bethlehem Trust Building, Bethlehem, Pa. Concrete, steel and brick, 8 stories, 152x115 feet, oak, composition, concrete and wood block floors, hollow tile, metal lath, roof ventilators, safety treads, elevators, dampproofing, iron work, floor hardener, hollow metal doors and sash, tile, marble and terrazzo work, electric lighting, steam heating, stone foundations. Bond. Owners taking bids due December 15th. Cramp & Co., Denckla Building; Roydhouse-Arey Co., 115 North Broad street; Warren-Moore Co., Colonial Trust Building; Irwin & Leighton, 126 North Twelfth street; Standard Const. Co., 1713 Sansom street; John R. Wiggins Co., Otis Building, and Wark Co., 1737 Filbert street, all of Philadelphia, Pa.; Beard Const. Co., Reading, Pa.; Brillhart Bros., Bethlehem, Pa.; Forest F. Speek Const. Co., Bethlehem, Pa.; Emil Dietisch, Inc., 383 Madison avenueffi George Dose Eng. Co., 43 West Twenty-seventh street; the Wills-Egelhoff Co., 101 Park avenue, and John Lowry, Jr., 8 West Fortieth street, all of New York City; John W. Cowper, Oliver Building, Pittsburgh, Pa., are figuring.

School (alts. and add.), Hook road and Clifton avenue, Darby, Pa. Architect, Mahlon J. Bye, Primos, Pa. Owner, Abraham Lincoln School, Darby, Pa. Brick and steel, 1 story, 4x36 feet, Barrett Spec. roof, pine floors, metal lath, roof ventilators, iron work, hot air heating, stone foundations. Bond. Architect taking bids due December 3rd. John M. Yardley, 1716 Sansom street; R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia; Dawson & Noll, Holmes, Pa.; Frank Kuhnert, Collingdale, Pa.; J. Howard Roberts, Lansdowne, Pa.; Alonzo Cork, Sharon Hill, Pa., and C. V. Curfess, Folcroft, Pa., are figuring.

Office Building, Bethayres, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Klauder-Weldon Dyeing



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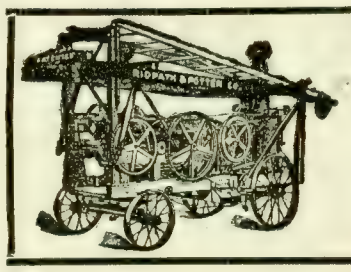
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Mach. Co., Jenkintown, Pa. Steel, concrete, brick and stone, 2 stories, 44x50 feet, slag roof, electric lighting, pine floors. Plans in progress.

Factory Building, Bethayres, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Klauder-Weldon Dyeing Mach. Co., Jenkintown, Pa. Brick, concrete and steel, 1 story, 150x250 feet, slag roof, electric lighting, cement floors, steam heating. Architect is taking sub-bids.

Bungalows (4), Lansdowne, Pa. Architect, private plans. Owners, Thomas P. Twibill, 312 Liberty Building, Philadelphia. Stone and frame, 1½ stories, shingle roof, oak and pine floors, stone foundations, hot water heating, electric lighting, tile work. Owner is taking sub-bids due December 10th.

Pennsylvania Contracts Awarded

Mill Building (alts.), Spring City, Pa., $8,000. Architect, private plans. Owners, Stanley W. Blum Mill, Spring City, Pa. Carpentry, mill work, plastering, sprinklers, painting, electric work, steam heating, plumbing. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Residence, No. 34, Merion, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner's name withheld. Stucco and frame, 2½ stories, 43x37 feet, shingle roof, oak and pine floors, tile work, stone foundations (heating, plumbing and electric work reserved). Contract awarded to John E. Kearney, 34 South Seventeenth street, Philadelphia.

NEW JERSEY Construction News

High School, Atlantic City, N. J., $1,000,000. Architect, J. T. Roland, Jersey City, N. J. Associate architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Atlantic City School Board, care of Mr. Bower, Ohio and Pacific avenues, Atlantic City, N. J. Brick. Sketches in progress.

Hotel, Boardwalk, Maryland and State street, Atlantic City, N. J. Architect, V. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Knickerbocker Hotel, care of J. W. Calloway, 122 St. Charles Place, Atlantic City, N. J. Brick, 10 stories, steam heat, electric light, tile and marble work, metal lath, elevators, waterproofing. Sketches in progress.

Galen Hall (alts. and add.), Connecticut and Pacific avenues. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Galen Hall Hotel, care of Mr. Knisell, on premises. Brick, fireproof, 2 stories, 19x30 feet and 19x40 feet, concrete foundations, concrete and slate roof, concrete floors, electric light, interior alterations. Plans completed. Ready for bids.

Garages, Boston and Atlantic avenues, Atlantic City, N. J. Architect, J. H. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, Fred Burk, on premises. Brick, 1 story, irregular size, stone foundations, slag roof, cement floors, electric lighting. Owner will sublet.

Store and Dwelling (alt. and add.), 18 South Georgia avenue, Atlantic City, N. J. Architect, A. L. Brooks, 122 South Maryland avenue, Atlantic City. Owner, V. Falcone, on premises. Brick, steel, concrete, 4 stories, 30x70 feet, concrete foundations, slag roof, pine floors, electric lighting, metal lath, general interior alterations, plumbing, plumbing fixtures, mill work, plate glass. Architect taking sub-bids.

House (alts. and add.), Kentucky and Belfield avenues, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, M. Georgetti, Atlantic City, N. J. Brick, 1 story, 50x100 feet, composition roof, cement floors, heating extension, lighting extension, steel work. Owner taking sub-bids.

Apartment, Ventnor, N. J. Architect, B. Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, David Wescoat, 308½ Oriental avenue, Atlantic City. Brick, 3 stories, 45x28 feet, brick foundations, slag roof, pine floors, steam heat, electric light. Owner will build.

Apartment, Ventnor, N. J. Architect, B. Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Kandle & Ott, New Hampshire avenue, Atlantic City, N. J. Brick, 3 stories, 50x25 feet, brick foundations, slag roof, pine floors, steam heat, electric light. Owner will build.

McCosh Recreation Hall, Princeton, N. J. Architects, Day & Klauder, 925 Chestnut st., Philadelphia. Owners, Princeton University, Princeton, N. J. Stone, 3 stories. Contract for foundations awarded to Matthew Const. Co., Princeton, N. J. Superstructure will be built in spring.

Residence (alts. and add.), Trenton, N. J., East Front street, $8,000. Architect, private plans. Owner, N. A. K. Bugbee, Hanover street, Trenton, N. J. Brick, 1 story, stone foundations, iron stairs. Owner will build.

Office, Garage (42) Apartments and (5) Stores, 413 East State street, Trenton, N. J. Architect, Walter Hankin, 241 South Warren street, Trenton, N. J. Owners, R. C. Maxwell Co., 413 East State street, Trenton, N. J. Reinforced concrete and brick, 2 and 3 stories, 93x197 feet, hot water heat, electric light, tile work, oak and cement floors. Plans in progress.

Stores (3) (alts.), Burlington, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton, N. J. Owner, Frank Stone, Burlington, N. J. New front, plate glass, steam heat, electric light, tile and marble work, plumbing, metal ceilings. Architect taking bids, due December 1st. Nathan Milgaten and D. Fritz & Son, Trenton, N. J.; U. B. Miller, Edgewater Park, N. J., and Geo. W. Shaner & Sons, Palmyra, N. J., are figuring.

Residence (alts.) to Stores (3), Brunswick and Pine streets, Trenton, N. J. Architect, J. C. Hunt, Montgomery street, Trenton, N. J. Owners, Red Cross Pharmacy, on premises. Brick, 1 story, 45x120 feet, concrete foundations, slag roof, hardwood floors, vapor heat, electric light, tile work. Architect taking bids, due December 3rd. Samuel Mather, C. Y. Barlow, Samuel Wiley, W. Ivens, Thomas Day, and Mr. Bentzell, all of Trenton, N. J., additional bidders.

Church and School, Bellevue avenue, Trenton, N. J. Architect, F. E. Tormey, Bellevue avenue, Trenton, N. J. Owners, Blessed Sacrament Church, Rev. M. F. Casey, 716 Belle-

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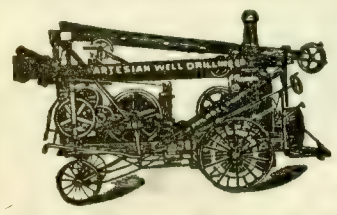


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vue avenue, Trenton, N. J. Stone, steel, iron, 3 stories, 119 feet 4 inchesx53 feet, stone foundations, slag roof, hardwood floors, electric light, tile and marble work, hollow tile, safety treads, 2 rolled steel skylights, metal ceilings, waterproofing, fireproof stairs. Owner will sub-let. ,

New Jersey Contracts Awarded

Residences (Bungalows) (32), Chelsea Heights, Atlantic City, N. J. Architect, private plans. Owner, William H. Cummings, Drexel Building, Philadelphia. Frame and stucco, 1 story, 20x38 feet ,asbestos shingle and asphalt roof, concrete foundations, pipeless heaters, electric lighting, pine floors, plumbing. Contract for two awarded to Crane & Cather, 646 Drexel Building, Philadelphia. Others will be built as needed.

Store and Apartment Hotel (alts. and add.), 139 South Kentucky avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City. Owner, Healy Hotel, Miss Margaret Healy, on premises. Brick, 1 story, 44x40 feet, cement and pine floors, electric light, interior alterations. Contract awarded to Max Dolinky, 1308 Pacific avenue, Atlantic City, N. J.

Office Building (alts.), from Boiler House, Camden, N. J. Architect, private plans. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Concrete and brick work, carpentry, mill work, plastering. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia.

Moving and Demolition of Barracks and Clearing Site, Lakehurst, N. J., $136,000. Architect, private plans Owners, United States overnment, War Department, Washington, D. C. Concrete foundations, alterations to fire lines, electric wiring, water mains, plumbing and mechanical equipment. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Kiln Building, Camden, N. J. Architects, William Ballinger Co., 329 South Broad street, Philadelphia. Owners, J. B. Van Sciver Co., Market Street Ferry, Camden, N. J. Brick and concrete, 1 story, 30x70 feet, slag roof, cement floors, stone foundations, waterproofing, iron work (heating and lighting reserved). Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia.

Residence, (add. and alts.) to Office Building, 221 East Hanover street, Trenton, N. J. Architect, J. C. Hunt, Montgomery avenue, Trenton, N. J. Owners, Kennedy & Pidcock Real Estate Co., Trenton, N. J. Brick, 3 stories, 25x18 feet, concrete foundations, slag roof, hardwood floors, electric lighting, tile work, general alterations to heating and electric work. Contract awarded to Elmer Stout, 243 Berwyn street, Trenton, N. J.

Church, Paul avenue, Trenton, N. J., $32,-500. Architect, R. A. Schumann, 932 Lamberton avenue, Trenton, N. J. Owners, St. James R. C. Church, Diocese of Trenton, care of Rev. T. J. Walsh, 153 North Warren street, Trenton, N. J. Brick, 1 story, 45x95 feet, concrete foundation, slate roof, hardwood floors, electric lighting, tile work. Contract awarded to D. F. Priory, American Mechanics' Building, Trenton, N. J.

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Miscellaneous Construction News

School, Wilmington, Del., 1836 Washington street. Architect, John Canning, 11 East Thirteenth street, Wilmington, Del. Owners, St. Stanislaus' R. C. Church, Wilmington, Del. Brick and hollow tile, 2 stories and basement, 95x65 feet, slag roof, pine floors, steam heat, electric light. Plans in progress.

Miscellaneous Contracts Awarded

School Building, No. 112, Baltimore, Md., $322,582. Architect, J. E. Laferty, 522 North Charles street, Baltimore, Md. Owners, City of Baltimore, Baltimore, Md. Stone, brick and steel, 3 stories, 75x150 feet, slag roof, cement and pine floors, hollow tile, stone foundations, steam heating, electric lighting, rolled steel sash, fire doors, hollow tile, metal ceilings, dampproofing, ornamental iron work, stairs. Bond. Contract awarded to J. L. Robinson Co., Baltimore, Md.

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HOUSING PROBLEM INQUIRY FAVORED

Governor Sproul of Pennsylvania appealed to in demanding laws helping housing

Representative builders and real estate men of the state appealed to Governor Sproul, of Pennsylvana, last week, when in conference at Harrisburg, to exert his influence for enactment of legislation to bring relief for the serious housing condition in the State, but the two groups differed as to the causes of the condition and the methods of correction. The realtors contended laws increasing the rate of interest, repeal of the 4 mill tax on mortgages and consequent liberalizing of the money market would help the situation.

Daniel J. Crawford, president of the Philadelphia Operative Builders' Association, declared standardization of the real estate values to stabilize the market was necessary, otherwise "all the money in the world won't help." Mr. Crawford said the situation could not be corrected entirely along financial lines.

A suggestion by the Philadelphia builders for appointment of a commission to study the problem next year met with the favor of the governor, who said a legislative commission would have more widespread authority to act than any he could appoint. The governor said the commission should contain authorities on economic and social problems and Mr. Crawford suggested such men as ex-Governor Edwin S. Stuart, Samuel M. Vauclain, President of the Baldwin Locomotive Works, Phila., John H. Mason, President of the Commercial Trust Co., Philadelphia, and Nathan Folwell, prominent Philadelphia manufacturer. The governor thought a federal law to give real estate loans the same preference as farm loans receive under the federal farm loan act might help, and said a modification of the income tax with respect to real estate would induce those "trying to escape the super-taxes to rush in over night."

Mr. Crawford predicated realty prices would remain high, estiminating they would stay at 100 per cent. above prewar prices. He said wages would drop, but not to where they had been, and that the wage of the common laborer would determine the future values of reality.

"We don't want to add confusion to confusion," said the governor in announcing he would be glad to co-operate if the real estate men and builders would take official action on some plan. He said in the period of readjustment many persons who crowded into industrial centers during the war would return to the country in search of more permanent homes, and referred to vacant houses in rural sections.

"They are going to drift out of Chester and out of Bristol because of the closing of Hog Island and other shipyards. If we could get owners of big properties to stop holding them for speculation it would help. Our fear is that we may do something in haste that will only be temporary," he argued.

The governor referred to a vacant property at Broad and Spruce streets, Philadelphia, "as a sad sight," and to another at Eleventh and Walnut streets as "a menace to the neighborhood, and said there ought to be some way to harpoon the owner."

On the question of the repeal of four mill tax on mortgages, the governor said it might hurt the borrowing capacity of Philadelphia where the county and city boundaries are the same. He said he would refer the question of repealing usury laws and the matter of increasing the borrowing capacity of building and loan associations to the banking department.

Burton C. Simon and Samuel Stern, representing Phila. building and loan associations, urged legislation to permit the associations to borrow 50 per cent. of their paid-in stock. They are limited now to 25 per cent. Mr. Crawford suggested a law to exempt new buildings from taxation, and the governor said authority could be conferred on municipalities to do so.

* * *

PUT YOUR SIGNATURE ON IT!

A GOOD SIGN WILL BRING BUSINESS TO THE LIVE BUILDER

IN visiting various sections of the country where active building is taking place, particularly in our smaller towns and communities, the writer has been thoroughly impressed by the fact that there is no class of active business men who are so backward in advertising their activities as the builders. A very large percentage of the thousands of building jobs which are being carried on now in many sections of the country do not carry on the operation any indication as to who is doing the job. The result is that as far as the builder is concerned, no matter how good the work may be or how well it is being done, the passing public, often including prospective clients for the builder, has no way of knowing who the builder may be.

One instance which shows this condition came directly to the attention of the writer in Detroit. This happened to be a Sunday afternoon in a district of Detroit where many new homes are now under construction. As we walked through this section looking over the various jobs, we had occasion to walk into a house which was partially completed. There was found another interested investigator, who introduced himself by asking if by chance we might know who was carrying out this operation. We did not know, but we found to our interest that the man making the inquiry was the owner of several lots in the vicinity who had in mind carrying out a building operation himself, and who intended to have work started within another month. During the rest of the afternoon we went around together, looking over various houses under construction, and the man was particularly impressed by the fact that on several of the houses he saw signs which stated that this work was being done by John Williams, Building Contractor. Among the final impressions of the trip Mr. Williams' name stood out predominantly as a contractor who was doing several jobs locally, and our friend stated his intention of getting in touch with Mr. Williams with the idea of having him handle the new work which was contemplated.

We were interested enough to follow up this matter and found, as we expected, that Mr. Williams had been employed to build six houses for the man in question. Without any doubt this work, involving an expenditure of $100,000, was the direct result of Mr. Williams' foresight in placing signs on his jobs.

Advertisers, even those who are spending hundreds of thousands of dollars in publicity, realize the basic value of presenting some actual result of their activity for public consideration. Certainly there is no way in which the builder may impress prospective clients with his ability in a more powerful way than to demonstrate actual work in the field.

Another instance directly to the point came under the observance of the writer. A building contract was let for a building covering a corner 100 by 100 feet and the first step taken by the contractor was to sublet the excavation work to an excavation and foundation sub-contractor who operated a steam shovel. While many jobs, some of them similar, were going on in this vicinity, this was the first on which a steam shovel was used, and the enterprising builder had a sign

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which stated that the excavation was being carried out by a steam shovel in order to save time and cut cost. It is interesting to note that several inquires came to this contractor for building work of a similiar nature, all of which were directly traceable to the fact that he employed a comparatively unusual method and used a sign as a medium of telling the public who was doing the work, and why it was excavated in this manner. The natural impression was that this builder is a live wire and a result-getter. He made it easy for inquirers by placing a sign on the job.

A similiar instance was noted on a consruction job involving the building of a row of houses in Brooklyn, New York, where excavating machinery was used to excavate a row of cellars, the entire operation being dug out in a few days. Here again a sign on the job brought a number of inquires from prospective clients,

Sub-contractors and material men are much more progressive in this matter than the average builder. It is a usual incident to see a building job with several small signs on it; one explaining that the furance was supplied by a certain company; another that hardwood flooring was supplied by a certain sub-contractor, and others that specialty lines were being supplied by various individuals or companies. But nowhere a sign stating who was carrying out the building job.

The building of homes and small store buildings is interesting the general public today in a way never before known. Considerable money is ready for investment in this field, and the man who is thinking of building does much of his investigating at first hand on Saturday afternoon or Sunday, walking from one job to another to see how the work is being carried out and what he may expect on his own job. Naturally his mind is open for impressions, and he is in many cases very much interested in a certain operation, particularly if he knows who the builder is.

If you are progressively seeking new business in your field, here is one method of advertising which costs practically nothing, and which should never be overlooked. Have a small, attractive sign placed prominently on the job, so that there will be no question as to who is doing the work.—*Builders' Journal.*

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.

WHAT STANDARDIZED LUMBER SIZES MEAN

The need of standard sizes for all the different lumber products has been felt for some time, due to the exceedingly numerous and constantly changing sizes, and the action of prominent lumber men in promoting standardization presages another progressive step in the lumber industry. The United States Forest Products Industrial Research Laboratory at Madison, Wisconsin, has been co-operating during the past year with the National Lumber Manufacturer's Association in working out an equitable basis for standardizing softwood lumber sizes. Some of the benefits to be derived from the standardization of sizes are as follows:

1. It makes possible a common language for all The consumer can substitute one species for another with assurance of getting material of the same size. Similarly, if a contractor starts to build several houses and orders his millwork, sash, doors, etc., based on certain lumber sizes as to stock around which the casing fits, the kind of wood can be varied as he desires.

2. Architects and purchasers can order more rapidly with one set of sizes,—looking for sizes scattered throughout different grading rule books is eliminated.

3. Material of standard sizes is more salable and by increasing the consumer's goodwill creates and adds value to the products.

4. Building design is simplified, since fewer sizes can be used.

5. Uniformity in construction results, regardless of the grading rules under which the material is purchased. Manufacurers now can not standardize millwork, etc., because it is dependent upon the sizes of the lumber used in building.

6. Remanufacture of larger sizes to match smaller sizes will be reduced and greater utilization with less labor and expense result. The architect frequently designs a building in accordance with the minimum sizes of lumber which may be furnished rather than on a species that can be procured in larger sizes.

7. Standardization of sizes eliminates local legislation on lumber sizes which confuse manufacture and distribution. Such legislation has been already suggested.

8. Standardization makes for fewer sizes and hence greater efficiency, ease and accuracy in lumber grading.

9. It equalizes competition between manufacturers, because present differences in overrun and freight charges are important factors in determining price.

10. It makes possible uniform practice and sizes in resawing.

11. It makes possible a fewer number of drying schedules in the kiln drying of lumber. At present the actual thicknesses of lumber of the same and different kinds cut under the rules of different associations often varies several per cent.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

The "Builders' Guide" is in its thirty-fifth year of continuous publication.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

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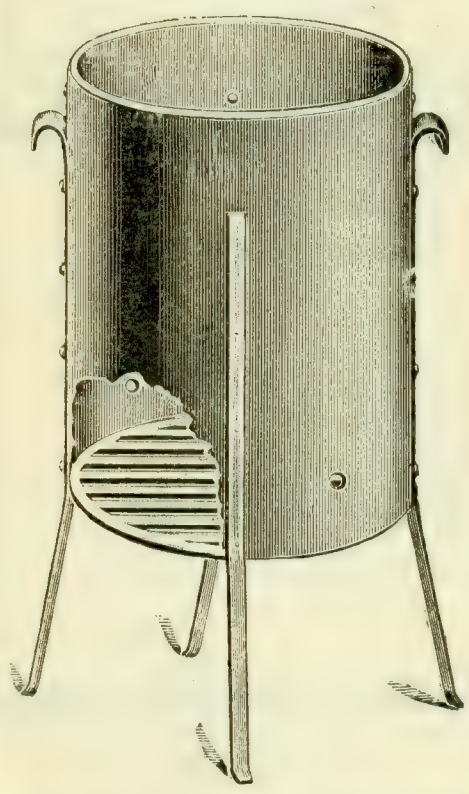
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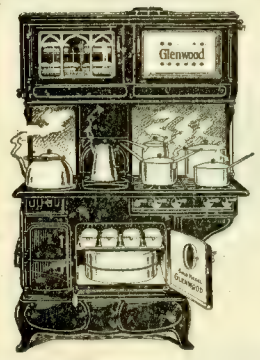
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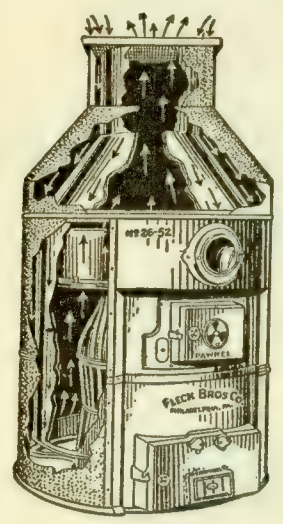


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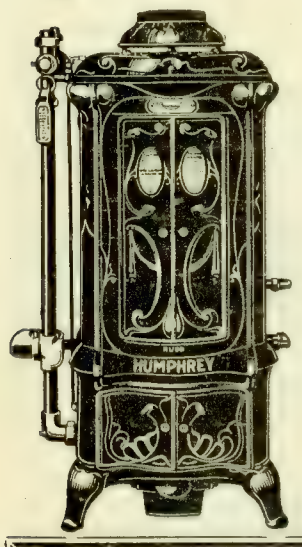
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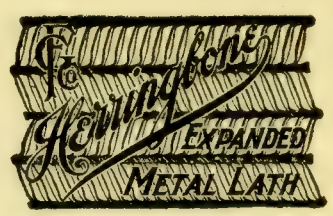
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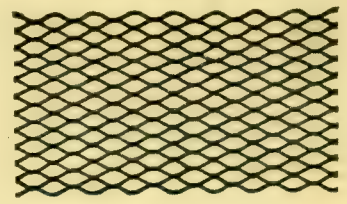
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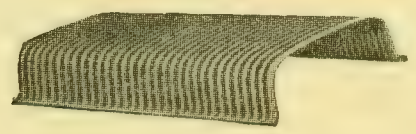
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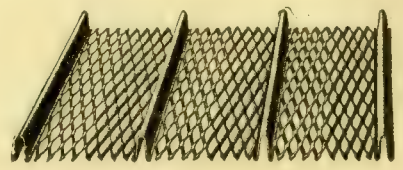
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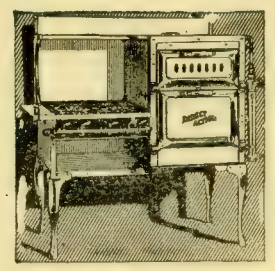


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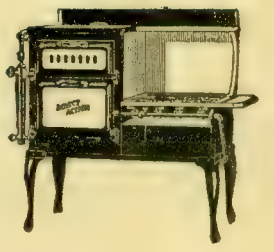
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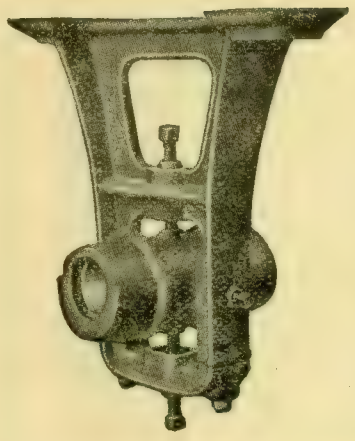
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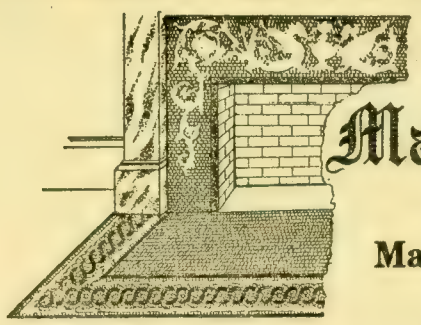
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As The Editor Sees It

FOLLOWING the recommendations of the conference of Governors held in Harrisburg, last week, it is to be hoped that some definite action will be taken by State and Federal Governments, to overcome the evils of the present housing situation. When a problem has assumed the enormity and importance of the present housing crisis, and when the crisis is so clearly seen and recognized, we feel that a constructive policy of some sort must be the outcome.

Governor Smith, of New York, said in his message to the conference, which was read by former Judge Edward F. Boyle,

"No problem of reconstruction has such far-reaching implications as this problem of housing. Shall this country remain in the dark ages of inadequate and un-American housing or shall we go forward with the times and enter the new era of our Democracy with an enlightened interest in the fundamental needs of our cities and our citizenship for well-planned communities that serve the industrial, commercial and social needs of the people, and homes that make for a stabilized self-respecting wholesome family life?"

"It is time the country made adequate provision to meet the problem."

"In America our housing laws have been negative, restrictive laws," he declared.

"It seems clear to me that the individual States should themselves work out systems of State credits for State purposes. With the control centered in each State, people will be in more direct and more democratic control of their housing funds and their application to local conditions.

"Belief that a cure for profiteering in rentals will bring about readjustment of the housing problem and that therefore homes will immediately be found for everybody at rentals which they can afford to pay is such a common error that it is not at all extraordinary that even the Federal Government approached the question in the early stages from this angle. Now, here is private initiative filling the demand for houses, and the situation in New York city is of vital interest to the whole community because what is happening and what has happened in the metropolis on a large scale is taking place in a lesser degree and more slowly in every city or town throughout the country."

Governor Sproul's suggestion that income from mortgages be exempt from taxation was viewed with favor and is in line with relief measures suggested by other experts. For instance, Charles O'-Connor Hennessy, a director of the Land Bank of the State of New York, suggests in *Building Industry* a somewhat similar plan to relieve the situation in New York, saying:

"I suggest that at the coming extraordinary session of the Legislature a declaration be made that, in view of the present public emergency, bonds of the Land Bank of the State of New York, when properly secured by dwelling house mortgages deposited with the State Comptroller, be regarded as instrumentalities of the Government of the State, issued for a public purpose. I understand that Governor Smith's Reconstruction Commission has recommended this.

"This declaration will, it is believed by competent legal authorities, have the effect of exempting them from the Federal income tax. In addition to this, it will be urged that the Legislature authorize the direct investment of State funds by the Comptroller in the purchase of Land Bank bonds, whenever these bonds are issued in response to the mortgage money requirements of the various savings and loan associations of the State. These bonds would be issued only up to $20,000-000.

"The effect of this legislation undoubtedly would be a great and immediate outflow of savings and loan association funds for the accomodation of home seekers who are now turned away. We are unable to make thousands of loans which might be easily and safely placed, much to the benefit of the housing situation and the community at large.

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tax burden of the people, nor is it a money making scheme, for no individuals will make money out of it. It insures the return of the moneys invested, with a substantial rate of interest, so the State Treasury would gain. The sum dedicated by the Legislature for this worthy purpose would form a revolving fund for the encouragement of individual home-building, provided that the Comptroller was authorized—as he should be of course—to invest the repayment of bond money in new bonds. As the bonds would be issued serially for periods of ten years (one-tenth maturing each year), the Comptroller would have available for reinvestment about $2,000,000 every year. The fund would renew itself every eleven years."

So far as Philadelphia is concerned, Daniel Crawford, president of the Philadelphia Operative Builders' Association, is preparing a programme, calling for the the erection of $50,000,000 worth of new dwellings next year. This will mean a partial relief, only, however, and it will take yearse of continuous work to bring this city up to its standard in the matter of homes.

* * *

SENTIMENT in favor of the "open shop" has been growing apace, and with the impetus received from the great "open shop" movement carried through so successfully in Seattle, has spread rapidly through the country. General Atterbury, vice president of the Pennsylvania Railroad, recently advocated the open shop without prejudice against trade unions, and asked for expression of opinion on this vital subject from Chamber of Commerce bodies. In answer to this invitation, Ernest T. Trigg, of the Philadelphia Chamber of Commerce, replied that:

"The Philadelphia Chamber of Commerce already has come out squarely in favor of the points in the industrial situation that were emphasized by General W. W. Atterbury in his statement to the National Industrial Conference Board."

Some time ago the Philadelphia Chamber of Commerce took its stand in no half-hearted way in favor of the open shop and many of the points raised by General Atterbury.

"We have gone farther than this. The Industrial Relations Committee of the Chamber of Commerce has obtained the services for a time of George W. Cartright, of California. He has been in Philadelphia for several weeks making a careful survey of the situation and his public statements regarding conditions have had the entire approval of our organization.

"He has addressed a number of prominent organizations upon the subject and it appears that his views and those expressed by General Atterbury are similar in many respects.

"We are doing all in our power to bring about a friendly understanding of conditions between employers and workmen throughout the city and it seems as if many of our efforts have been successful. We wish to have real co-operation established here. Mr. Cartright lays great stress upon the necessity of personal contact between an employer and the men in his plant.

"General Atterbury and other business leaders recognize that there is need of plain speaking and an education of workers of all kinds as to present conditions. His suggestion that leading commercial organizations should go strongly on record is timely. Our Chamber of Commerce has done so."

Not only, however, do Chamber of Commerce bodies favor the "open shop" plan, but workmen in many instances, are in favor of it. In answer to an attack by Samuel Gompers,on employers favoring the open shop principle, C. Wilbur Miller, president of the Davison Chemical Company, Baltimore, makes this very convincing reply in the *Manufacturers' News.*

"Mr. Gompers assumes, first, that he, as President of the American Federation of Labor, represents and speaks for the workingmen of the United States; and, second, that all employers are only thinking of themselves in approaching questions relating to labor. There is not the slightest foundation for either assumption, and it is because Mr. Gompers spends part of his time with the American Federation of Labor officials, who make themselves believe these conditions exist, and the rest of his time trying to convince the politicians his assumptions are correct.

"It makes very little difference what Mr. Gompers or his official family believes, but the American public and politicians should know that the American Federation of Labor only represents a very small minority of workingmen, and many of this number are aliens without the suffrage. The employers represent the majority of American working men, and when they vote for the 'open shop' they cast the vote for this majority, as it is in this way they can be heard. If they did not vote for the 'open shop' they would all belong to the American Federation of Labor and there would be no discussion on the subject.

"Some months ago a committee of men from one of the plants I represent came to me with the complaint that the American Federation of Labor was turning the public against the workingman, and that they felt it was time for the employers of non-union labor to defend them and act

(Continued on Page 998.)

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Library Foundations, Nineteenth to Twentieth streets, Parkway, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Free Library of Philadelphia, care of Librarian John Ashhurst, Thirteenth and Locust streets, and care of Frank Caven, Director of Department of Public Works, City Hall, Philadelphia. Concrete, 313x212 feet, waterproofing. Bond. Owners taking bids due December 21st. Standard Const. Co., 1713 Sansom street; Geo. F. Payne & Co., 401 South Juniper street; F. W. Mark Const. Co., Commercial Trust Building; M. Melody & Son, 1422 Race street; Cunningham & Murray, 3915 Market street; Irwin & Leighton, 126 North Twelfth street; James Sheridan, 1441 South Vodges street; Keystone State Cont. Co., Franklin Bank Building; John N. Gill & Co., Otis Building; Edw. Fay & Son, 2 South Mole street; Robert E. Lamb Co., 843 North Nineteenth street; Ketcham & McQuade, 1029 Brown street; F. M. Harris & Co., 1520 Parrish street, all of Philadelphia; Jorn Gill & Sons, Cleveland, Ohio, and Riverside Cont. Co., 39 Cortlandt street, New York City, are figuring.

Garage, Twenty-first and Berks streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Waldow, care of A. Sonnenfeld, 707 Walnut street, Philadelphia. Brick, 1 and 2 stories, 75x110 feet, slag roof, cement and pine floors, stone foundations, steam heating, electric lighting, fire doors, hollow metal skylights. Owner taking bids due as soon as possible. Penn Const. & Eng. Co., 3840 Spring Garden street, and A. Sonnenfeld, 287 South Sixty-third street, are figuring.

Nurses' Home, rear of present building, Broad and Mifflin streets. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, St. Agnes' Hospital, Broad and Mifflin streets, Philadelphia. Brownstone, 4 stories, 84x161 feet, tile and Barrett roof, cement and composition floors, metal lath, waterproofing, dampproofing, iron work, rolled steel sash, tile work, stone foundations (plumbing, elevators, heating and electric lighting reserved). Bond. Architect taking bids due December 20th at noon. Thomas Reilly, 1616 Thompson street; A. R. Raff Cont. Co., 1635 Thompson street; William R. Dougherty, 1610 Sansom street; John J. Murphy & Co., 1139 South Wilton street; T. J. & J. R. Whelen, 1011 Chestnut street; Michael Melody & Son, 1322 Race street, and O'Meara Const. Co., 329 South Broad street, are figuring.

Residence (alts.), 2014 Wallace street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, E. R. Dresden, care of architect. General alterations, plumbing, hot water heating, electric lighting, tile work, hardwood floors, carpentry, mill work. Architect will take sub-bids.

Residences (2) (alts.) to Hospital, 1307-09 South Broad street. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, Missionary Sisters of the Sacred Heart, 307 North Sixty-fifth street. Changing residences into dispensary and hospital. Plans in progress.

Residences, 725 West Upsal street, Philadelphia. Architect, Frank V. Nickels, 4400 Manayunk avenue, Philadelphia. Owner, John A. Seeds, 716 West Upsal street, Philadelphia. Stone, 2½ stories, 40x51 feet, slate and shingle roof, oak and pine floors, tile work, iron work, electric lighting, hot water heating, stone foundations. Owner has received bids.

Garage, 4730 North Twelfth street, Philadelphia, $3,000. Architect, private plans. Owner, Ralph J. Robbin, 4733 North Camac street, Philadelphia. Brick, 1 story, 16x80 feet, slag roof, cement floor, electric lighting. Owner will build.

Club House, Fairmount Park, Philadelphia. Architect, E. F. Hoffman, Jr., Franklin Bank Building, Philadelphia. Owner, College Boat Club, Fairmount Park, Philadelphia. Frame and plaster, 2 stories, 46x71 feet, slag and slate roof, cement and pine floors, stone foundations. Architect taking bids due December 10th. William H. Eddleman & Son, 453 Green Lane; Milton W. Young, Overbrook, Philadelphia, and William R. Dougherty, 1610 Sansom street, Philadelphia, are figuring.

Building (alts. and add.), 1339 Vine street, Philadelphia. Architect, private plans. Owners, Peerless Film Exchange Co., on premises. Brick and steel, 2 stories, 30x15 feet, slag roof, pine floors, stone foundations, steam heating, electric lighting, rolled steel skylights, fire doors, store fixtures, metal ceilings, iron work. Owners taking bids due as soon as possible. Pierce-Henon, Bulletin Building; Warren Bros., 1113 Cherry street, and Campbell Const. Co., 1309 Vine street, are figuring.

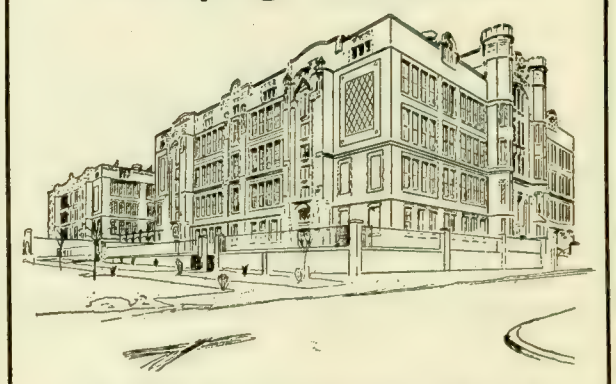
Schools (alts.), various locations, Philadelphia. Architect, private plans. Owners, Boards of Public Education, care of John H. Cassell, Nineteenth above Chestnut street. Roof repairs, general alterations and repairs, painting, electric work, etc. Owners have received bids.

Municipal Pier, No. 4, South Delaware River, Chestnut street. Architects and engineers, John P. B. Sinkler, 826 City Hall, and Department of Wharves, Docks and Ferries, Bourse Building, Philadelphia. Owners, Department of Wharves, Docks and Ferries, care of George F. Sproule, Director, Bourse Building, Philadelhpia. Steel and concrete, double deck, 80x550 feet. Owners taking bids due December 28th at noon. Plans may be secured upon deposit of $25.00.

Station Platform, Cont. No. 548, Front and Fairmount avenue, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Concrete work, concrete floors, wood and slag roof, asbestos board roofing, painting, steel sash. Bond. Owners taking bids due December 14th. Geo. H. Evans, Inc., 45 North Thirteenth street; Montgomery Iron & Steel Co., Ninth and Berks streets; Belmont Iron Works, Twenty-second and Washington avenue; W. W. Lindsay, Harrison Building; F. J. Boas, 201 North Broad street; Monaghan & Losse, 3016 Chestnut street; William Steele & Sons Co., Sixteenth and Arch streets; F. A. Foster Co., 43 South Seventeenth street; Geo. B. Clopp, 3717 Filbert street; United Eng. Co., 323 Walnut street; Robert E. Lamb Co., 843 North Nineteenth street; Lehigh Structural Steel Co., 34 South Seventeenth street, and Snare & Triest, Pennsylvania Building, are figuring.

Steel Superstructure, Cont. 585, Frankford avenue and Bustleton avenue adjacent to Bridge street, Philadelphia. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Owners taking bids. Montgomery Iron and Steel Company, Ninth and Berks streets; Belmont Iron Works,

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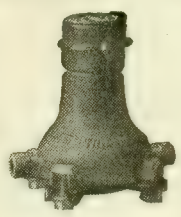
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Garage, 411-12 Moore street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Herman Goldman, 409 Moore street, Philadelphia. Brick, 1 story. Plans about completed.

Office and Warehouse (alts. and add.), 246-48 North Delaware avenue. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owners, M. Eiseman & Sons, on premises. Brick, 5 stories. Architect taking bids, due December 14th. Ketcham & McQuade, 1029 Brown street; Penn Const. and Eng. Co., 3840 Spring Garden street; Albert Zellfelder, 151 South Broad street; Pierce-Henon Co., Bulletin Building; Michael Kirschner, 4930 Brown street, and B. Sagel, 3110 Page street, are figuring.

Church, Broad and Wyoming avenue, Philadelphia. Architect, Frank R. Watson, 1211 Chestnut street, Philadelphia. Owners, St. Asaph's Episcopal Church, care of Rev. Chas. Henry Long, 4644 Old York Road, Philadelphia. Chestnut Hill stone. Plans in progress. Will be ready for bids about January 1st.

Church, Deveraux street and Rising Sun Lane, Philadelphia. Architect, Emile G. Perrott, Parkway Building, Philadelphia. Owners, St. William's R. C. Church, care of Rev. Wm. A. Motley, 909 Levick street, Philadelphia. Stone, 1 story. Preliminary plans in progress.

Bakery (add.), Tenth and Reed streets, Philadelphia. Architect, private plans. Owners, General Baking Co., 45 East Seventeenth st., New York City. Concrete, 1 story, 80x104 feet, slag roof, concrete floors, stone foundations, rolled steel sash, iron work (heating, electric work and plumbing reserved). Owners taking bids, due December 10th. Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia, are figuring. Stone work, glazing, iron work.

Store and Apartments (alts. and add.), southeast corner of Broad and Wharton sts., Philadelphia. Architect, Frank V. Nickels, 4400 Manayunk avenue, Philadelphia. Owner, John Reale, Tenth and Filbert streets, Philadelphia. Brick, 4 stories, 24x100 feet, slag roof, pine and cement floors, concrete and stone foundations, steam heating, electric lighting, fire escapes. Plans completed. Architect ready for bids, due December 8th.

Garage, 5542-46 Ridge avenue, Philadelphia, $3,000. Architect, private plans. Owner, Harry Z. Will, on premises. Stone, 1 story, 20x106 feet, slag roof, cement floor, electric lighting, steam heating. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residences (2), East side of Ardleigh, South of Mt. Airy avenue, $20,000. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Stone, 3 stories, 28x39 feet, slate or shingle roof, hot water heating, electric lighting, oak and pine floors, tile work. Contract awarded to A. S. Tourison, Jr., 7014 Boyer street, Philadelphia.

Store Building (alts. and add.), Southeast Corner Twelfth and Walnut streets. Architect, eorge I. Lovatt, 416 Walnut street, Philadelphia. Owners, Geo. Kelly Dept. Stores, care of Continental Equitable Title & Trust Co., Trustees, Twelfth and Chestnut streets, Philadelphia. Brick work, sheet iron work, metal doors and sash, carpentry, mill work, terrazzo work, plumbing, plastering, metal lath. Contract awarded to Cochran & McShain, 1610 North street, Philadelphia.

Office Building (alts.), Southeast Corner Fifteenth and Walnut streets, $15,500. Architect, W. S. Dittman, Flanders Building, Philadelphia. Owners, Wilson & Chadwick, Morris Building, Philadelphia. Brick, 1 story, 15x15 feet, slag roof, concrete floors, carpentry, mill work, painting and glazing. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

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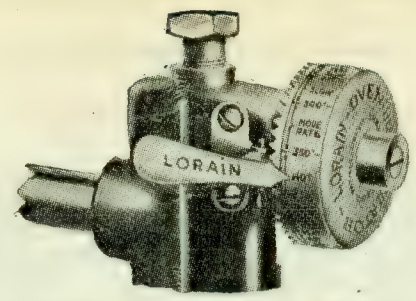


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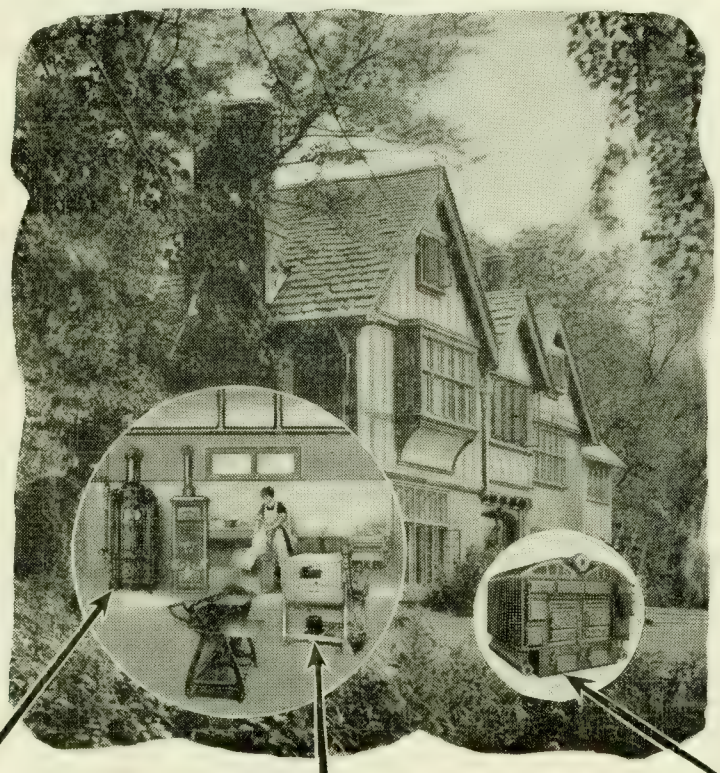


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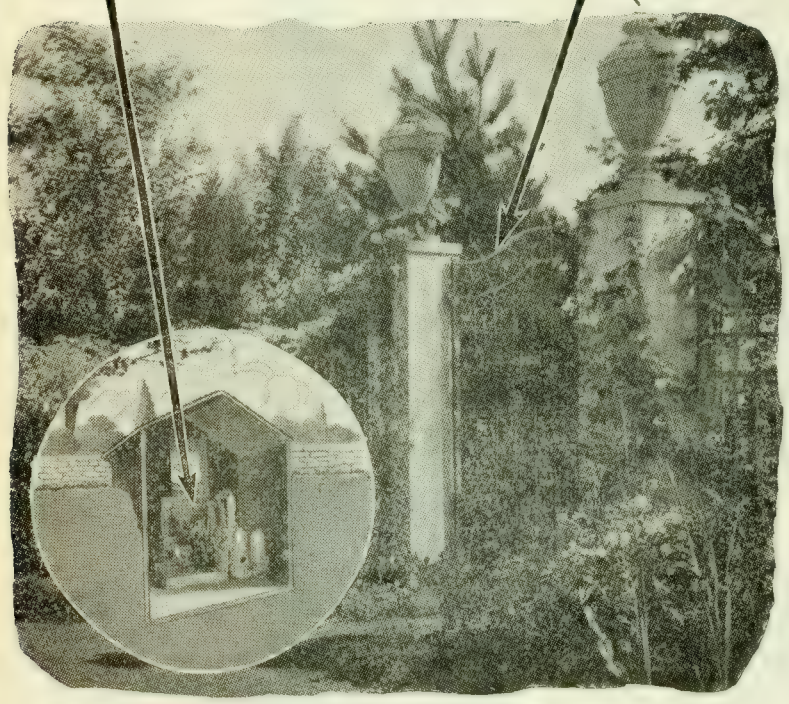
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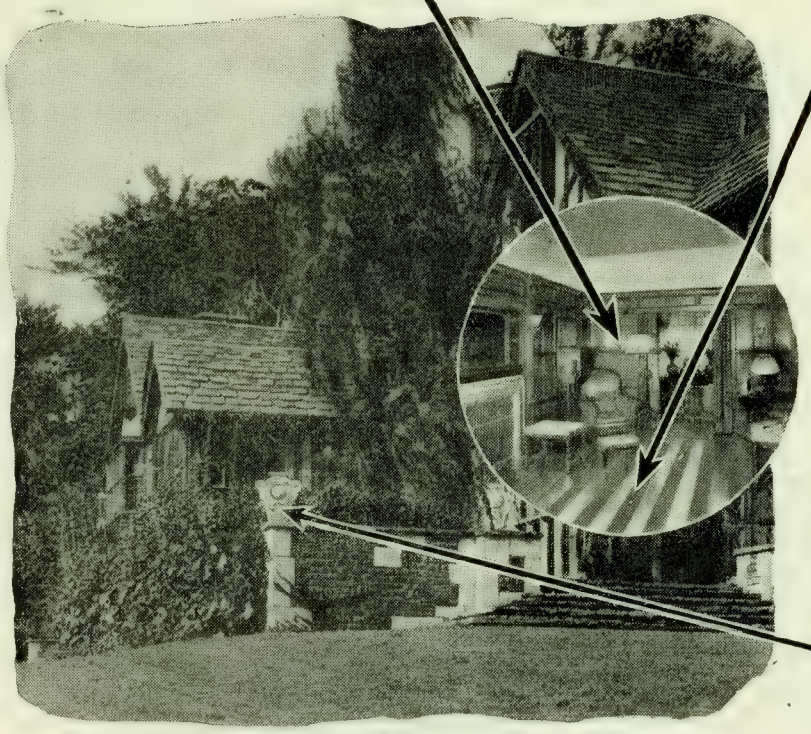
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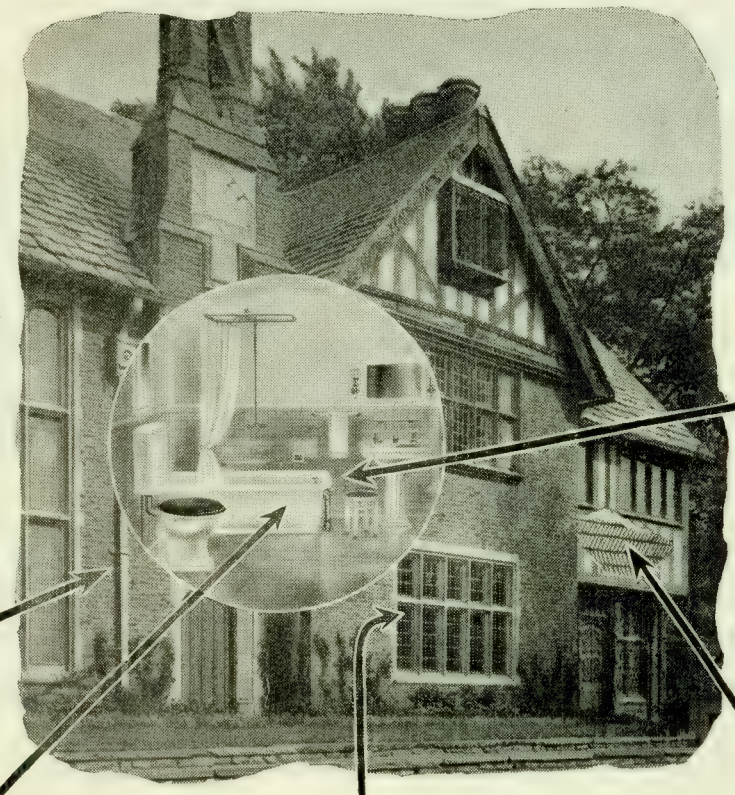
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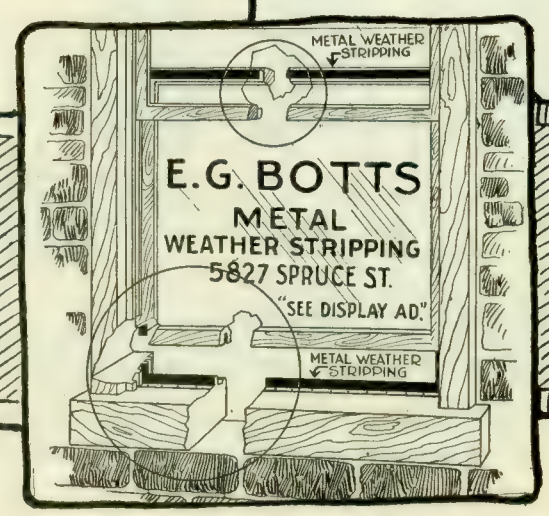












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APPLY TO
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PHILADELPHIA

Residence (alts. and add.), School House Lane and Henry Lane, Philadelphia, $15,000. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owner, D. H. Carstairs, West School House Lane and Thirty-third street, Philadelphia. Brick, 2½ stories, 29¾x24 feet, shingle roof, oak and pine floors, stone foundations, hot water heating, electric lighting, tile work, metal weather strips, iron work. Contract awarded to William H. Eddleman & Son, 453 Green Lane, Roxborough, Philadelphia.

Store (alts.), Frankford avenue and Foulkrod street, Philadelphia, $9,500. Architect, Carl F. Otto, Foulkrod and Oakland streets, Frankford, Philadelphia. Owners, George A. Gerety & Sons, 4800 Frankford avenue, Philadelphia. Cut stone, parquetry floors, roof repairs, plastering, electric work, plumbing, heating and painting. Contract awarded to John Fotheringham, Castor and Arrott streets, Frankford, Philadelphia.

Children's Home (alts.), Southeast Corner Forty-third and Wallace streets, $24,000. Architect, James E. Bullock, 34 South Seventeenth street, Philadelphia. Owners, St. Michael's and All Angels' Home, on premises. Carpentry, mill work, painting, glazing, steam heating, electric work, slag roof, plumbing. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Bakery (alts.), Fifty-sixth and Market streets and Broad and Butler streets, 20,000. Owners, Kolb's Bakery, Tenth and Reed streets, Philadelphia. Concrete work, cement floors, waterproofing. Contract awarded to Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia.

Club House (remodeling), City Line and Limekiln Pike, Philadelphia. Architects, Druckenmiller & Williams, 1527 Chestnut street, Philadelphia. Owners, Cedar Brook Country Club, care of architect. Changing farm buildings into club house, new porches, new heating, electric work, new floors, mill work, plastering, general remodeling and alterations. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Bank Building (alts.), Sixtieth and Master streets, Philadelphia, $4,000. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Overbrook Bank, on premises. New front, stone, brick and concrete work, metal work, glazing. Contract awarded to Edw. Holland, 1037 South Fifty-fourth street, Philadelphia.

Store (add.), Northwest Corner Orthodox and Milnor streets, Germantown, $20,000. Architect, private plans. Owners, People's Corp. Stores Co., on premises. Brick, rear add., 2 stories, 20x9 feet, side add., 2 stories, 20x100 feet, slag roof, stone foundations, hot water heating. Contract awarded to J. Grabowski, 2006 Orthodox street, Philadelphia.

Residence (alts. and add.), Northwest Corner Twenty-first and North College avenue, $5,000. Architect, private plans. Owner, Mrs. M. E. Ewards, 1304 North Twenty-second street, Philadelphia. Brick, 1 story, 15x11 feet, slag roof, electric lighting, general interior alterations. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

Hospital (add.), 1411-13 North Marshall street, Philadelphia, $3,000. Architect, private plans. Owners, Julius Herbott, on premises. Brick, 1 story, 34x26 feet, asphalt roof, cement floor electric lighting, iron work. Contract awarded to John N. Gill & Co., Otis Building.

Factory (alts.), Summerdale street and P. & R. R. R., $19,000. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Stokes Smith Co., on premises. Carpentry, mill work, reinforcing floors, steel and iron work, metal lath, plastering, fireproofing. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Storage Building, Northwest Corner Thirty-

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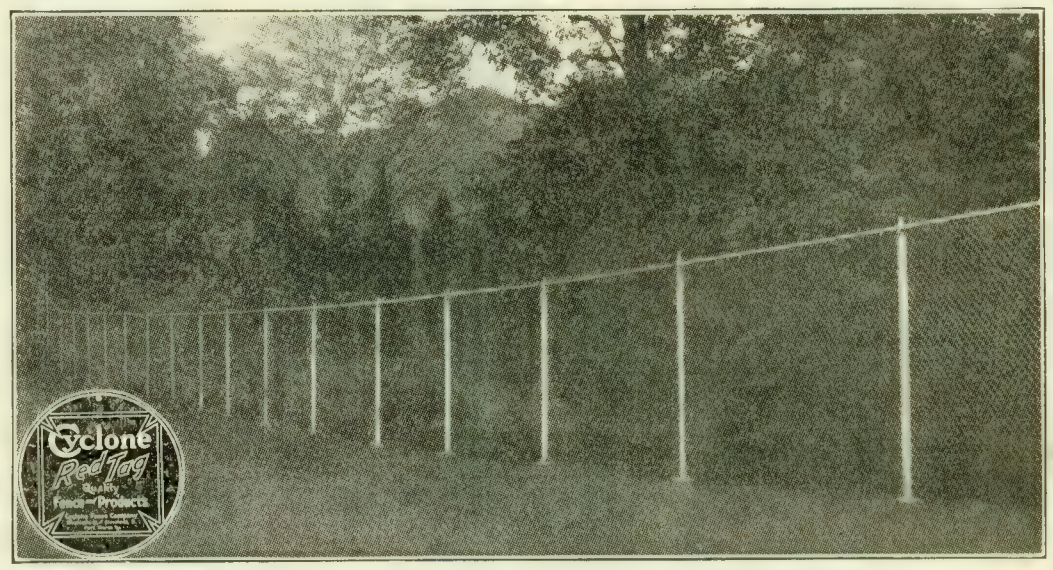
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CYCLONE CHAIN LINK SAFEGUARD FENCING

third and Master streets, Philadelphia, $7,000. Architect, private plans. Owner, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Iron, 1 story, 30x38 feet, slag roof, electric lighting, cement floors, skylights. Contract awarded to Transcontinental Freight Co., Drexel Building.

Store and Residence, 739 South Third st., Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, Herman Oestrich, on premises. Brick, 3 stories, 24x33 feet, slag roof, oak and pine floors, iron work, tile work, stone foundations, hot water heating, electric lighting. Contract awarded to Jacob Gorchov, 4116 Girard avenue, Philadelphia.

PENNSYLVANIA
Construction News

Theatre (alts.), Colonade Hotel, Chester, Pa. Architect, private plans. Owner, John J. McClure, on premises. Tile work, hollow tile, composition floors, steel work, brick work, repairing roof, carpentry, plumbing, electric work. Owner taking bids due December 10th. Chester Const. & Cont. Co., Otis Building, Philadelphia, is figuring.

Freight House and Office Building, Coatesville, Pa. Architect, Samuel Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Brick and steel, freight house, steel frame construction, 1 story, 30x195 feet, office building, brick, 2 stories, 22x40 feet, 30x97 feet, asbestos roof, pine floors, metal lath, hot water heating, electric lighting, concrete foundations. Bond. Owners taking bids due December 14th. Irwin & Leighton, 126 North Twelfth street; H. E. Baton, 1713 Sansom street; A. L. Carhart, Penfield Building; F. A. Havens Co., 845 North Nineteenth street; Robert E. Lamb Co., 843 North Nineteenth street, and F. W. Van Loon, Perry Building, are figuring.

School and Convent, Cheltenham, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Presentation of the B. V. M. R. C. Church, care of Rev. James Gibbons, Cheltenham, Pa. Plans in progress. Details not decided.

Residence, Milton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Joseph Leopold, Milton, Pa. Frame, 2½ stories, 25x50 feet, shingle roof, hardwood floors, concrete foundations, hot water heating, electric lighting. Plans in progress. Will take bids in six weeks.

Residence, Watsontown, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Mrs. J. H. Wagner, Watsontown, Pa. General interior and exterior alterations, mill work, electric work and fixtures, painting, papering. Owner will build.

School, Plymouth, Pa. Architect, Emile G. Perrot, Parkway Building, Philadelphia. Owners, St. Vincent's R. C. Church, care of Rev. P. J. Colligan, Plymouth, Pa. Brick, 2 stories. Plans in progress.

Dormitory (alts.) and Hospital Building,

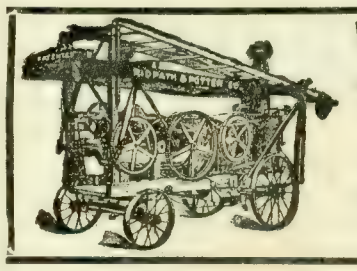


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Loysville, Pa. Architect, George C. Baun, 1511 Arch street, Philadelphia. Owners, Tressler Orphans' Home, care of George E. Neff, 46 East Market street, York, Pa. Plans in progress. Too early for details.

Factory Building, Bethayres, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Klauder-Weldon Dyeing Mach. Co., Jenkintown, Pa. Brick, concrete, steel, 1 story, 130x250 feet, slag roof, electric lighting, cement work, steam heating. Architect is taking sub-bids on carpentry and millwork from Wills-Ludwick Co., 1706 Sansom street; F. B. Davis & Son, 240 North Sixteenth street; A. R. Raff Cont. Co., 1635 Thompson street, and McNeill Valentine Co., 841 North Broad street, due as soon as possible.

Pennsylvania Contracts Awarded

Building (alts. and add.), 407 Market street, Chester, Pa., $13,900. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, J. Christopolas & Bro., 407 Market street, Chester, Pa. Brick, second story add., 18x90 feet, slag roof, maple floors, electric lighting, tile and marble work, iron work. Contract awarded to R. J. Scroggins, Chester, Pa.

Garden, Merion, Pa. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Murray Cortright, Merion, Pa. Grading, shrubbery, brick work, mill work, slate walks, stone foundations, tile work, concrete pools, benches, paving. Contract awarded to Outdoor Arts Co., Flourtown, Pa.

Residence, No. 35, Trevor Lane, Cynwyd, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Frame, 2½ stories, 27x28 feet, shingle roof, pine floors, stone foundations, hot water heating, electric lighting, tile work, ornamental iron work. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Residences and Garages (15), North Wildwood, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner's name withheld. Frame, 1½ stories, 23x34 feet, and brick, 1 story, shingle roof, pine and cement floors, hot water heating, electric lighting, concrete foundations. Plans in progress.

New Jersey Construction News

Club House, Camden, N. J. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, I. B. P. O. E., No. 87, Camden, N. J. Brick and stone, 3 stories, 40x108 feet, slag roof, pine floors, iron work, stone fonudations, steam heating, electric light, plastering, metal lath, composition floors. Architect taking bids due as soon as possible.

Pierce Henon, Bulletin Building; Michael Kirschner, 4930 Brown street; Penn Const. & Eng. Co., 3840 Spring Garden street, and Albert Zellfelder, 151 South Broad street, are figuring.

Laundry and Power Plant, Pennington, N. J. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, Pennington Seminary, Pennington, N. J. Brick and concrete, 1 and 2 stories. Work contemplated. Preliminary sketches being drawn.

Fire Station and Drill Yard, Indiana and Baltic avenues, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Commissioners, City Hall, Atlantic City, N. J. Brick, steel and concrete, 4 and 6 stories, 90x55 feet, smoke house, 1 story, 12x12 feet, tool house and appliances, 1 story, 76x12 feet, demonstration house, 1 story, 12x12 feet, slag roof, composition and pine floors, metal lath, waterproofing, floor hardener, fire doors, tile and marble work, electric lighting, steam heating, stone foundations. Bond. Lowest bid submitted by H. John Homan, 34 South Seventeenth street, Philadelphia, $103,339.

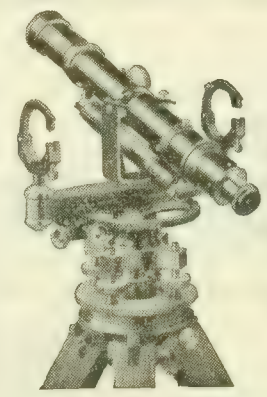
Office and Garage Apartments (42), Stores (5), 413 East State street, Trenton, N. J. Architect, Walter Hankin, 241 South Warren street, Trenton, N. J. Owners, R. C. Maxwell Co., on premises. Reinforced concrete and brick, 8 stories, 193x97½ feet, reinforced concrete foundations, slag roof, steam heat, electric light, oak, cement and wood floors, hollow tile, tile work, metal lath, elevators, rolled steel sash and skylights, roof ventilators, fire and kalamein doors, floor hardner. Architect will take bids in two weeks.

Residence (alts.), Stores (3), Brunswick and Pine streets, Trenton, N. J. Architect, J. C. Hunt, Montgomery avenue, Trenton, N. J. Owners, Red Cross Pharmacy, on premises. Brick, 1 story, 45x120 feet, concrete foundations, slag roof, hardwood floors, vapor heating, electric lighting, tile work. Architect has received bids.

Garage, Freeman Lane, Trenton, N. J., $2,000. Architect, private plans. Owner, T. Elwood Corson, 23 Freeman Lane, Trenton, N. J. Cement block, 1 story, 75x18 feet, concrete foundations, slag roof, cement floors, steam heat, electric light. Owner will build.

New Jersey Contracts Awarded

Church and School, Bellevue avenue, Trenton, N. J. Architect, F. E. Tormey, 3411 Beech avenue, Baltimore, Md. Owners, Blessed Sacrament Church, Rev. M. F. Casey, 716 Bellevue avenue, Trenton, N. J. Stone, steel, iron, 3 stories, 119 feet 4 inchesx53 feet, stone foundations, slag roof, hardwood floors, hollow tile, electric light, tile and marble work, safety treads, 2 rolled steel skylights, metal ceilings, waterproofing, fireproof stairs. Con-



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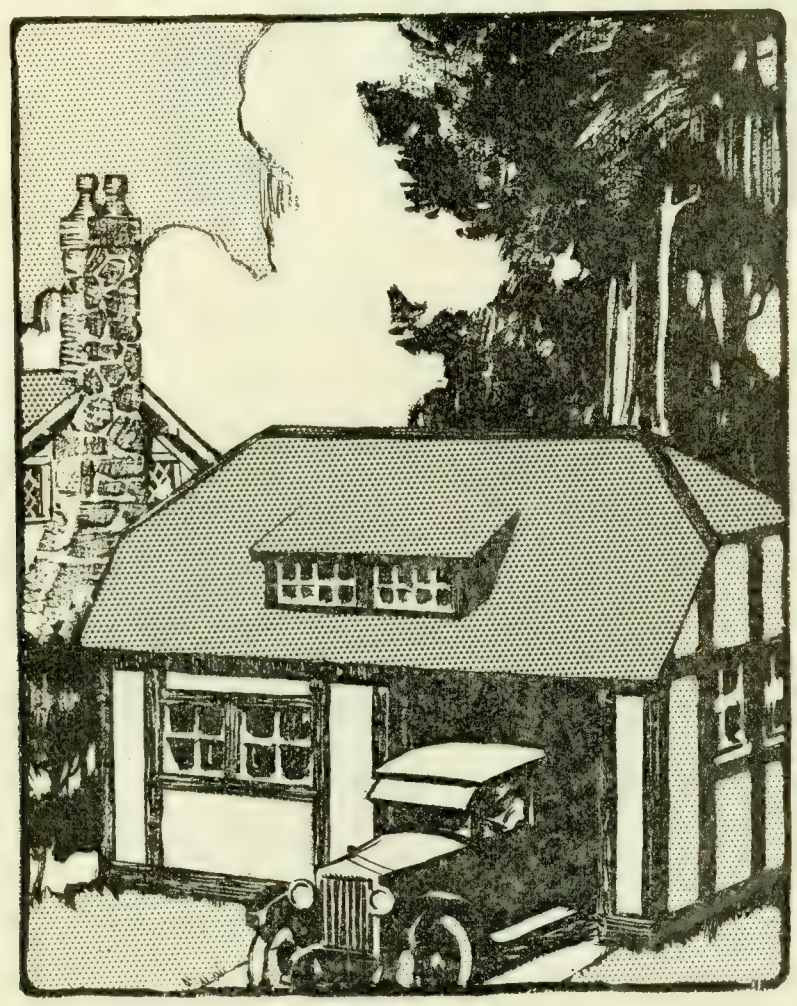
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Specialists in Vapor Heating



Wells - Soundings
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Artesian Well Drilling Co.
Real Estate Trust Building, Philadelphia

tract awarded to J. A. Maher, 716 Bellevue avenue, Trenton, N. J.

Stores (3) (Alts.), Burlington, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton. Owner, Frank Stone, Burlington, N. J. New front, plate glass, steam heating, electric lighting, tile and marble work, plumbing, metal ceilings. Contract awarded to Shaner & Warner, Burlington, N. J.

Miscellaneous Construction News

School House, No. 76, Latrobe Park, Baltimore, Md. Architect, Otto G. Simonson, Maryland Casualty Tower Building, Baltimore, Md. Owners, Mayor and City Council of Baltimore, Baltimore, Md. Brick, terra cotta and steel, 3 stories, 271x76 feet and 241x50 feet, slag roof, maple floors, metal lath and ceilings, dampproofing, iron work, hollow metal sash, electric lighting, steam heat, stone foundations. Bond. Owners taking revised bids due December 14th Standard Const. Co., 1713 Sansom street, Philadelphia, is figuring.

Apartment House, Flushing, Long Island, New York. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, name withheld. Brick, 4 stories, 150x100 feet, slate roof, concrete floors, steam heating, electric lighting, tile work, hand power dumb waiters. Plans in progress.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Nov. 29, 1920. Sealed Proposals will be opened in this office at 3 P. M., Dec. 27, 1920, for new mailing vestibule, etc., at the United States Post Office building at Charlotte, N. C. Drawings and specifications may be obtained from the Custodian of the building, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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(Continued from Page 988.)

as their spokesmen. Knowing that they threw into the bay a walking delegate who had the courage to enter our works to organize them, I sought their reason for their strong opposition to the unions. They were as follows:

"First. They strongly objected to the tyranny and selfishness of the labor union leaders.

"Second. They objected to being put upon the same level of less efficient or more idolent men.

"Third. They were indignant at the strife and hard feeling being stirred up between employer and employee and the general branding of the employer as a scoundrel and discredited person. They knew most employers were once laboring men and they hoped to be themselves or were educating their children to be employers and had no intention of tearing down their goal.

"Fourth. They felt the contact with the employer direct was more satisfactory and brought quicker and better results than through a medium which considered its own ends first and the men second.

"Fifth. That men out of the union got better wages and were much more contented. They looked upon the employer as a friend and leader and enjoyed working with him, instead of begrudging every service, knowing nothing individually counted.

"Mr. Gompers does not want to admit these facts. He found out in the steel strike a majority of workingmen wanted an 'open shop.' He knows that his power has only come from augmented governmental control by frightening the timid politician with his soap bubble. Mr. Gompers realized some time ago that the majority of the workingmen were with their employers and that if they all worked

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together in political mattters the union would be an empty shell . It was for this reason that legislation was constantly directed against the employer to discredit him. Why cannot the politician remember the election between Mr. Bryan and Mr. Taft? Mr. Bryan accepted the plank on labor, of better labor unions, as written by Mr. Mitchell, and the A. F. of L. advocated his election, and yet Mr. Bryan got less votes than he ever received before.

"Put a labor union plank in the platform of either party and the majority of laboring men will vote against that party.

"The majority of workingmen, the majority of employers, the majority of professional men, the majority of salaried men, and I believe, the majority union laboring men if they could speak their minds, believe in an 'open shop', and all these classes are just as interested in the betterment of mankind as a few men who make a living misrepresenting the laboring man and the country.

"It is quite time that men representing the majority of men in this country who work with their hands and skill come to their defense. Most of the men employed at our works are my personal friends and I represent them when I speak on this subject or vote at the National Chamber of Commerce. If I did not, they would choose Mr. Gompers by joining the union. They all know I voted for the 'open shop' and they all back it up, as do the employees of the other members who voted the same way."

DEFINING RESPONSIBILITY

OBJECTIONS TO RIGID CLASSIFICATION

BY E. T. THURSTON

Secretary, General Contractors of San Francisco

The Bulletin has suggested and advoccated that contractors be classified according to financial responsibility and business experience as a means of contributing to the welfare alike of the public and the contracting profession. The points of view, respectively, of the head of a large construction company and the editor of a magazine appear to the writer to involve a certain lack of appreciation of the basis of the building business. In this belief the writer is prompted to offer the following remarks:

Every contractor invited to bid on a job has the right to expect an equal chance with every other contractor. This necessiarily involves (1) absence of prejudice on the part of the owner and (2) identical terms and conditions for all bidders. It is the private owner's privilege to include or exclude bidders at will, but some general, impartial way of selecting desirable bidders must govern public work. In either case the fact that a contractor is officially invited or permitted to bid should be considered *prima facie* evidence of his desirability as contractor for the work from the standpoint of the owner. This means no less than that the lowest regular bidder is entitled to the award of the work, provided, of course, he be able to qualify by signing a proper contract and furnishing the neccessary bond or other security. Any owner, having received competitive bids, who refuses to award the contract to the lowest bidder competent and willing to qualify as such is guilty of misrepresentation and fraud, unless the aforesaid low bidder is given suitable compensation for his estimate.

CLOSE BIDS TO UNRELIARLE CONTRACTORS

Having disposed of these ethical fundamentals, let us consider how bidders may be intelligently selected:

For public work, it is submitted that the only measurable responsibility is financial responsibility, whereas for private work the personal element and the matter of professional and business reputation may properly be considered as even more important than large material resources. In fairness, we see no escape from the universal practice of insuring the responsibility of a bidder on public work by requiring of him a bidder's bond or a certified check. If previous experience with a proposed bidder has resulted in prejudice against him on the part of the public body, the public should have the same authority to refuse him the privilege of bidding as to refuse to award him the contract if his bid is low, and the former procedure would surely be more ethical than the latter.

There are various sources of information available to the private owner for the determination of the responsibility and desirability of any contractor whom he may have under consideration as a bidder; such as his architect or engineer and his banker. Owners and their architects and engineers should be made to realize that they may not invite and receive competitive bids from contractors without obligating themselves to award the work to the contractor submitting the lowest regular bid. By "regular bid" is meant one in strict conformity with the specifications and the call for bids.

MONEY AND LUCK OR RELIABILITY?

The writer sees no merit in the suggestion that contractors be classified according to years of experience and gross annual business. Large personal assets or sheer luck may enable a poor, inefficient contractor to continue in business many years and to carry out successfully, from the owner's standpoint, a large volume of work, whereas limited assets or misfortune may seriously hamper the business of the most efficient contractor. In general, if a contractor pays his bills, no other assumption is warranted than that his business is a financial success. Responsibility is ability and willingness to meet one's obligations. From the layman's standpoint these obligations are in fact exclusively financial. Every contractor knows that years of experience alone will never make a high grade contractor. Ability, intelligence and integrity are also needed. Every contractor also knows that no amount of ability is absolute assurance against error in estimate and bid. Furthermore, every business man knows that personal endorsements as to moral responsibilty and capability are themselves in general irresponsible and as unreliable as they are easy to get. Many years of membership in the American Society of Civil Engineers has convinced the writer that such membership has little influence in securing commissions from laymen; much less influence has one's relative classification therein.

Securing business on a profitable basis is purely a matter of salesmanship, no matter what the line. The keenest, most experienced business man and the most timid, unsophisticated member of society alike capitulate to the clever salesman.

It appears to the writer that contractors give too much attention to the matter of the interests and convenience of the owner, who would be more safely left to his own devices.

IS YOUR (BUSINESS) HOME IN ORDER?

The contractor should attend more strictly to making his own business more orderly and attractive. If contractors' organizations would study more closely the problem of developing professional pride and *esprit de corps* among their membership and less to forcing correctives down the throat of outsiders, there would result that feeling of unity and regard for the finer things of life that would do more to bring about happier business relations and more prosperous conditions than any other influence. The writer in his official capacity has found his chief difficulty in enforcing the rather simple Working Rules of his organization, not with the architect or the owner, but with his own membership. In other

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words speaking individually, it matters not so much what the other fellow is doing as what I am doing. If each one obeys the law the entire community will be law abiding.

If any considerable number of people will form an organization to uphold righteous principles, and will then individually observe those principles and eschew business relations with those that would violate them, such an organization, even though it represented a minority in its field, would eventually establish a reputation not only for itself but for each of its members, and the public would therein find a guide to responsible service.

"Skill, Integrity, and Responsibility" are desirable qualities, but let us not ask the public to believe that they are either guaranteed or necessarily evidenced by liquid assets and mechanical equipment. Let us rather, in behalf of our boasted "equality of opportunity" and in the interest of the lay public, get away from the worship of mere money and grossness, and seek for more personal evidences of "Skill, Integrity, and Responsibility."—*"Bulletin of Associated General Contractors.*

THE BUILDER AND HIS DEALER

BY E. S. ROBERTS

A widely popular automobile is advertised as being "standardized,"—that is, the parts are brought together and assembled into a finished car. It seemed to be a new idea in the automobile field, yet it is what builders have been doing from time immemorial,—assembling materials into completed structures. Yet builders do not sell the completed structures to owners, nor do dealers sell the materials to the builders. Each is selling a service, —the builder his services in erecting a building and the dealer his services in furnishing the materials. And in the final analysis the materials are not bought or sold,—only the service they render in the completed building is sold.

Thus the furnishing and use of the proper materials to perform certain service in the building becomes as important as any other function. And part of the dealer's task is to know the proper material and how it should be used to secure the desired result; while to the builder is assigned the task of using that material so as to secure the desired result.

Perhaps one of the most serious drawbacks under which the small contractor and building supply dealer labor is a lack of understanding of each other's problems. It is up to the dealer to buy, not from the lowest bidder, but from the producers from whom he is assured of getting delivery. It is his problem to aid in getting the material into his yard, to unload it promptly and economically, to reload it to his delivery equipment and get it to the job, and all on a margin that requires the utmost skill to prevent showing a red ink balance on his ledger.

However, the troubles that delay and aggravate the dealer in turn are reflected on the contractor,—but the average small contractor is not familiar with conditions beyond the dealer's control and vents his ire upon the luckless chap who is furnishing materials.

For instance, nearly ever contractor has suffered through inability to secure labor,—yet he fails to realize that the dealer has to have labor, that the producer must have labor. Contractors have experienced delay in railroad travel, yet they fail to co-ordinate this with the much worse delay in freight. It seems that the small contractor is so busy with his own immediate troubles that he cannot or does not see that his worries are the same as the dealer's and producer's and their difficulties are only the same as those from which the whole nation is suffering. The remedy would seem to lie in a better understanding of the conditions that affect the whole building industry.

In order to secure the proper distribution of materials contractors should familiarize themselves with what constitutes a standard load and order accordingly. For instance, if 1,500 common brick constitutes a wagon load, and 2,500 a truck load, as far as possible the contractor should order those quantities. When the end of the job is in sight he should estimate carefully what he needs to complete his job, for it costs money to pick up material and haul it away. Not only that, but the team or truck that is picking up over-ordered material should rightfully be delivering, for undoubtedly some other builder is waiting.

Often a dealer is called upon to deliver material over almost impassable roads, where, if the builder had notified the dealer when the road or street was in such condition that it should bear traffic, delivery could have been made with much less expense.

A contractor should assure himself that the owner for whom he builds is able and willing to pay. Too often, the prospective owner is lax in meeting his obligations and an additional burden is thrown on the small contractor. "Shoe string" owners should also be avoided. It is true that the commercial fabric of the world is woven of golden threads of credit, yet more than a casual glance is given to the strength of these threads by the successful industries.

Money makes the mare go just as well today as it ever did, and credit men in many firms are now insisting that a man should have, besides a clean record and a willingness to pay, *the ability and means* to meet his obligations. Therefore a contractor should be alive to every means to foster his credit reputation. Not only should he see his way clear to pay his bills, but he should make certain that his clients will pay him promptly. Many a small builder has done himself damage by waiting until it was too late before taking the dealer into his confidence.

If a contractor would talk over with a dealer the advisability of taking on certain work and arrange terms before going ahead, much unpleasant controversy would be avoided. The dealer isn't anxious to collect his bills merely for the satisfaction of handling the money. He, too, has obligations to meet, and he must meet them promptly, else his sources of supply will be cut off.

Lastly, a spirit of confidence should obtain between dealer and builder. The old ideas of skinning corners and "getting by" are over, for business men know that success is not built on a single operation, but upon a continued series of tasks well and honestly accomplished. The standardization of materials is largely responsible for the elimination of trickery, and inherently most men are honest. Poor construction has largely been eliminated, and the building industry stands on a high plane of efficiency and worth. Perhaps no other industry is so affected by conditions not under its control. Certainly no other industry, unless it be iron and steel, employs so many men, or consumes so much material, or is so dependent upon railroads. Nor is any other industry so hard hit in times of panic or so overworked in times of prosperity. Building is the first industry hit in hard times and the last to recover. It goes hand in glove with financial conditions and when money is "tight" building suffers. Building is tremendously dependent upon labor.

Thus with producer, dealer and builder so linked, a mutual understanding of each others' problems should cause a more equitable use and distribution of materials and labor.—*Builders Journal.*

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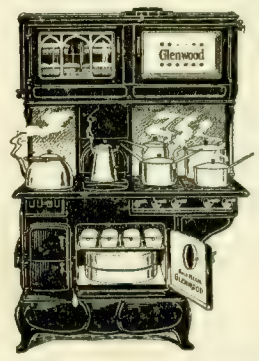
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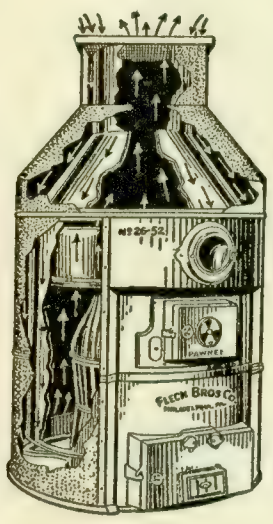


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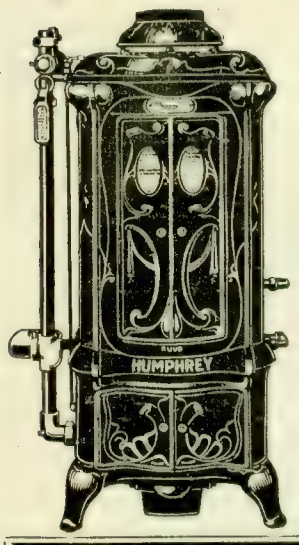
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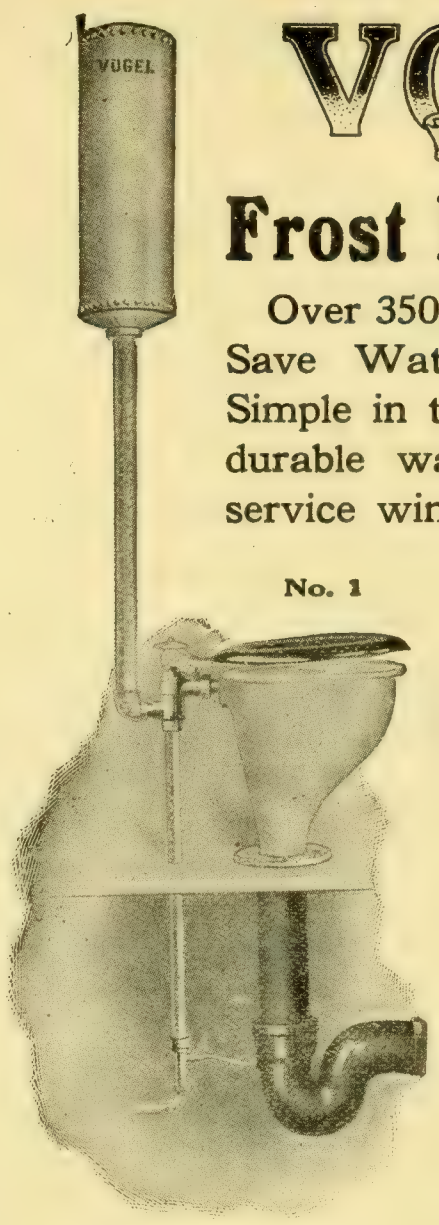
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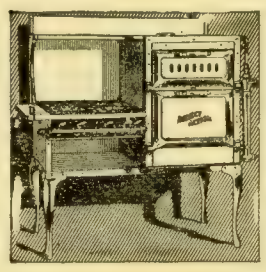


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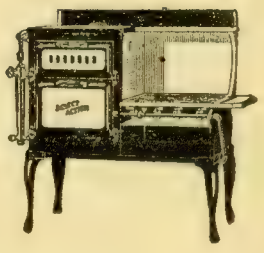
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXV, No. 50
December 15, 1920

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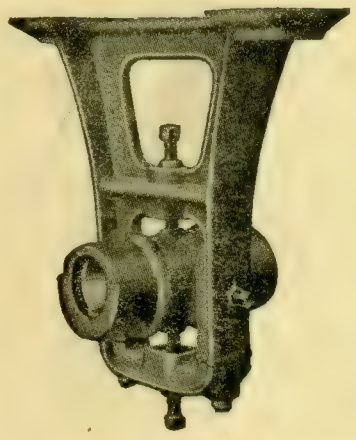
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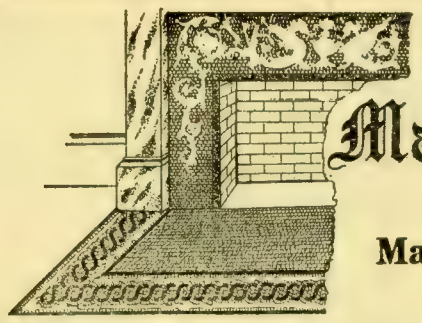
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 50

PHILADELPHIA
December 15, 1920

BUILDERS' GUIDE

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As The Editor Sees It

VIEWING the situation from every angle, we feel that the future outlook for the building industry is assuming a brighter aspect. The movements on foot throughout the country to start the wheels of this great and vital industry in motion, are at last producing tangible results. Then, too, there is a more settled feeling on the part of home buyers and home builders, growing out of the conviction that there can be no great reduction in building cost in the near future.

"It would be interesting to know," says the *American Contractor*, "just how the demand for building materials compares with the demand for clothing and shoes and other commodities, the prices of which have shown recessions. Surface indications are that the demand for building material has been proportionately less than the demand in other fields and yet the recessions in building material prices have yielded to these unfavorable conditions less than commodity prices. The very natural conclusion is that there has not been so great a spread between production costs and selling costs on building materials as on general commodities and that building material prices can not show the proportional decrease in prices incident to general commodities, without going below the cost of production. Here and there a hard pressed dealer or manufacturer will sell below cost in order to relieve his financial strain, but no one will expect building material or other prices to drop below producer's costs and remain there.

Lumber prices now current can not be justified and can not long be maintained at so low a figure. The least demand is likely to bring a substantial recovery and builders contemplating activities in the spring can not go very wrong by taking advantage of the persent stagnation in the lumber industry.

Brick and cement prices, over a period of thirty days, have made no substantial concessions to the striking buyers and while cheaper coal is a favorable prospect which normally would encourage lower prices by spring, our transportation situation is not at all encouraging when it is analyzed.

It is the opinion of O. E. Hawk, of Youngstown, Ohio, whom we quote from Building Industry that "the living standards in America must be maintained if we are to continue as a democracy, and should improve if we ever hope to render charity useless."

"Increase in population is, after all, the basic cause for increased demand and increased price of everything. If you held a million articles which humanity must have and it were impossible for another one to ever be manufactured, it would be folly to argue that any law, either natural or otherwise, could ever operate to reduce the value of these articles. This is practically the situation with land. Land today is as cheap generally as it can ever be."

* * *

The necessity of making mortgages paying investments, is urged in most influential quarters, and much was accomplished in this direction by the Governors' meeting held recently at Harrisburg. That the financial situation is improving is the belief of John N. McGarvey, chairman of the Builders' Executive Committee, of the Philadelphia Operative Builders' Association. Said Mr. McGarvey recently:

"I believe that the close study the public is giving to the question of providing adequate housing in Philadelphia has begun the vast process of restoring confidence."

"There are two essentials, which have been impressed on the public mind as a result of the painful experience of evictions and lowered standards of living forced upon families by inadequate accommodations.

"One is that there is a real shortage of houses running far into the thousands.

"The other is that the housing shortage can only be made up by constructing new houses.

"The fact that many banks and savings institutions all over the city are increasing the amount of their mortgage loans is one of the most encouraging signs we have had thus far, for it means that in-

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vestors are turnng to solid substantial mortgages with their limited, but always safe return for investment.

"The signs of improvement are but a glimmer through the clouds, but they are pointing the way to relief for thousands of Philadelphia families, if we read their meaning rightly."

Mr. McGarvey declared that with a concentrated drive under way by the builders, bankers and public generally for the removal of State and Federal taxes from mortgage investments he believes the great factor in the solution of the housing problem will be disposed of.

"Financing is at the bottom of the present housing shortage." Public confidence must be solidly established as a foundation on which to build the financial frame work. A reasonable and fair return from mortgage investments must be assured the financial man, while we know there is a limit of interest charges beyond which mortgages should not go for the sake of the home buyer, who never has any too much money.

"I believe from evidence I have gathered in many directions recently that there is little chance of term loans such as mortgages, falling off in interest rates for sometime to come and therefore, believe the present 6 per cent. figure will be maintained pretty well.

"The aid lent our cause by Governor Sproul and the distinguished executives, who attended the Governor's conference at Harrisburg recently, has been inestimable and the second great forward stride is being looked forward to daily now when it is expected Senator Calder's reconstruction committee will report the results of its findings concerning the housing shortage throughout the United States and the serious social and economic problems which will result to the Nation if relief is not quickly provided."

WHAT IS A FAIR RENTAL?

A Summary Prepared from Data Compiled by the Research Department of the Housing Company

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What is a fair rental for dwelling house property?

A rule of thumb has often been laid down that a dwelling house should return a gross rental of 10% of its value. A vast amount of dwelling house property has been rented on this basis, or less. Yet it is certain that, by and large, a gross rental of 10% will not return even a savings bank rate of interest to the owner. In some cases it will return practically nothing.

Some rather careful calculations of the cost of operating a dwelling-house property indicate that, instead of a gross rental of 10%, a gross rental of at least 13%, and frequently of 15% or more, is necessary to return a yield at all remunerative.

One calculation of this sort, prepared by the United States Housing Corporation, places the normal cost of operating and maintaining ordinary dwelling-house property at nearly 8%, a figure which, in view of the general advance in taxes, supplies, and labor during the past few years, should be increased at the present time. The operating costs for apartment-house property are considerably higher than 8%.

The United States Housing Corporation's figures, which represent the median experience as reported for the period 1913—1918, and which should be taken as a broad basis rather than as a specific formula, are as follows:

Factors	Per cent. on Investment
Maintenance	1.4
Service	.5
Insurance	.2
Taxes and Assessments	1.4
Vacancies and Bad Accounts	.7
Depreciation and Obsolescence*	3.0
Administration	.5
Total Expense	7.7

On this basis a gross rental of nearly 14% would be needed to return even 6% on the investment. But it should be clear that at the present time a 6% return does not adequately compensate the owner for the burden and risk of maintaining such property.

Mr. William C. Benkert, former president of the Philadelphia Real Estate Board, has placed the operating cost of dwelling-house property at 7.1%, as follows:

Taxes and Water Rates	2.5%
Vacancies	1.0
Repairs	1.0
Insurance	.1
Management	.5
Depreciation and Obsolescence	2.0
Total	7.1%

*Estimated and assumed.

(Continued on page 1014)

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Building, 1522 Walnut street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Heymann & Bro., Widener Building, Philadelphia. Limestone and brick, 2 stories, 20x140 feet, slag roof, cement and pine floors, metal lath, iron work, rolled steel skylights, tile and marble work, electric lighting, steam heating, stone foundations. Bond. Architect has received bids.

Store Building, 106 North Second street, Philadelphia. Architect, I. W. Levin, Mutual Life Building, Philadelphia. Owner, B. Miller, 607 South Second street, Philadelphia. Brick, 4 stories, 27x60 feet, slag roof, hardwood floors, electric elevators, plumbing, metal ceilings, rolled steel sash, tile and marble work, steam heating, electric lighting, stone foundations, concrete foundations, structural steel. Owner is ready for bids.

Residences (7), Second and Duncannon streets, Philadelphia, $23,500. Architect, private plans. Owner, Charles Sinn, 5518 North American street, Philadelphia. Brick, 2 stories, 16x37½ feet and 15½x24 feet, 12¾x11 feet, slag roof, hot water heating, electric lighting, pine floors. Owner will build.

Warehouse (alts.), 246-48 North Delaware avenue, Philadelphia. Architect, J. Ethan Fieldstein, Penfield Building, Philadelphia. Owner, M. Eiseman & Sons, on premises. Brick work, iron work, carpentry, mill work, maple floors, metal ceiling, tile work, composition floors electric work, steel sash, steam heating plumbing. Architect has received bids.

Steel Superstructure, Cont. 585, Frankford avenue and Bustleton avenue, adjacent to Bridge street, Philadelphia. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Lowest bid submitted by American Bridge Co., Widener Building, $106,824.

Inspection Shop, Cont. No. 591, Frankford avenue and Bridge street. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, care of William S. Twining, 1211 Chestnut street, Philadelphia. Concrete, steel and brick, 1 story, 435x48 feet, hollow tile, metal lath, rolled steel sash, rolled steel doors, iron work, concrete foundations (plumbing and electric work reserved). Heating and fire protection system Cont. No. 593 on same job. Owners taking bids due December 21st. H. E. Baton, 1713 Sansom street; Frank G. Stewart, 1619 Sansom street; Ketcham & McQuade, 1029 Brown street; Standard Const. Co., 1713 Sansom street; M. Melody & Son, 1322 Race street; Pierce-Henon Co., Bulletin Building; H. John Homan, 34 South Seventeenth street; Mitchell Brothers, 2125 Race street; Kober Const. Co., 34 South Seventeenth street; American Steel Eng. Co., 10 South Eighteenth street; George Dobbin, 4615 Springfield avenue; Robert B. Lederle, Witherspoon Building; Robert E. Lamb Co., 843 North Nineteenth street; Hughes-Foulkrod Co., Commonwealth Building; Shoemaker-Satterthwaite Co., 4 South Fifteenth street; F. Harris & Co., 1520 Parrish street; Fish Rutherford, Real Estate Trust Building; George H. Evans, Inc., 45 North Thirteenth street; Snare & Triest, Pennsylvania Building; Lehigh Structural Steel Co., 34 South Seventeenth street; F. A. Foster Co., 43 South Seventeenth street; George A. Glenn & Co., Tenth and Columbia avenue; William Steele & Sons Co., Sixteenth and Parkway; Edw. Fay & Son, 2 South Mole street; Wills-Ludwick Co., 1708 Sansom street; W. W. Lindsay, Inc., Harrison Building; American Bridge Co., Widener Building; W. W. Anstine Co., 1218 Filbert street; Belmont Iron Works, Twenty-second and Washington avenue; Montgomery Iron & Steel Co., Ninth and Berks streets, and Friel McLeister Co., 2146 East Norris street, are figuring.

Demolition and Removal of Buildings, Sheds, etc., Tenth to Eleventh, Lombard to Rodman streets, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, care of Frank H. Caven, Director, Room 113, City Hall. Owners taking new bids due December 22nd.

Building (alts.), Twenty-third and Westmoreland streets, Philadelphia. Architect, Charles B. Keen, Bailey Building, Philadelphia. Owners, Sharpless Specialty Co., on premises. Interior alterations, tile work, plastering, mill work, painting. Architect taking sub-bids due December 18th.

Residence (alts.) to (2) Stores, Forty-sixth and Woodland avenue, Philadelphia. Architects, Folsom & Stanton, Fuller Building, Philadelphia. Owner, name withheld. Brick and stone work, pine floors, carpentry, electric lighting, marble work, plate glass. Plans in progress.

Church (alts.), Carlisle and Dauphin streets, Philadelphia. Architect, H. G. Moyer, 2344 North Carlisle street, Philadelphia. Owner, First Church of the Brethren, care of Rev. George D. Kuns, 2260 North Park avenue, Philadelphia. Cement floors, carpentry, mill work, partitions. Owners taking bids due as soon as possible. Frank I. Wintz, 1618 North Twenty-seventh street, is figuring.

Armory (alts. and add.), Thirty-second and Lancaster avenue, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, First Sqd. Armory and Drill Shed, care of Major W. G. Price, care of architect. Plastering, carpentry, mill work, painting, skylight repairs, terra cotta and tile work. Bond. Architect has received bids.

Church, Fifty-ninth and Pine streets, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Berean Baptist Church, care of architect. Stone, 1 story. Preliminary plans being drawn.

Residence (alts. and add.), 3409 Powelton avenue, Philadelphia. Architects, Lachman & Murphy, 356 Drexel Building, Philadelphia. Owner, L. S. Hewett, on premises. Brick, new third floor, 40x60 feet, slag roof, pine and oak floors, vapor heating, electric lighting, tile work. Architects taking bids due December 18th. Thomas C. Trafford, 1613 Sansom street; Mackle-McClelland Cons. Co., Drexel Building, and Rush Bros., 1016 Harrison street, Philadelphia, are figuring.

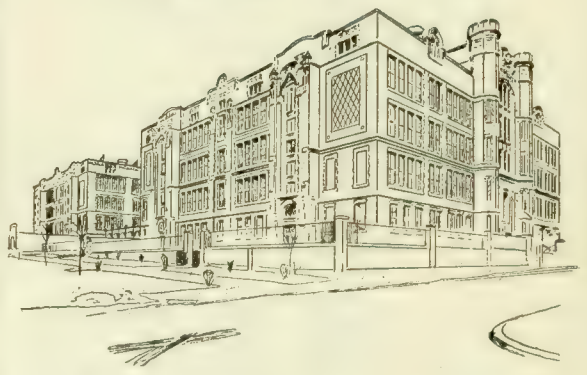
Church (alts. and add.), West Philadelphia, $30,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. General remodeling of entire building and additions. Preliminary plans in progress.

Residence (alts.) to Apartment House, Southeast Corner Seventeenth and Summer streets, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, T. J. & J. R. Whelan, 1011 Chestnut street, Philadelphia. Complete remodeling of entire building into first-class modern apartment house, hot water heating, electric light, plumbing, tile and marble work, fire tower, porches, hardwood floors. Owners are ready for sub-bids.

Residence (alts. and add.), 1815 Spruce street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street. Owner, Dr. Jas. A. Kelly, 1510 North Seventeenth street, Philadelphia. General remodeling, new partitions, roof repairs, steam heating, metal lath, plastering, plumbing. Architect has received bids.

United States Mint (alts.), Eighteenth and Spring Garden streets, Philadelphia. Archi-

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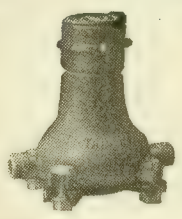
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tect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owner, United States Mint, Treasury Departing, Washington, D. C. New roof, repointing, building, etc. Lowest bid submitted, F. A. Foster, 43 South Seventeenth street, $16,390.

Residence (alts.) to Store, 1465 South Fifty-second street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. Flush bulks, marble work, electric lighting, pine floors, galvanized iron work. Architect is ready for bids.

Residence (alts.), 1432 South Fifty-second street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, name withheld. Flush bulks, pine floors, electric lighting, marble work, iron work, galvanized iron work. Architect is ready for bids.

Apartment House, Thirty-third street, Columbia avenue and Natrona street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, S. Ulick, care of architects. Brick, 4 stories, 110x170 feet. Preliminary plans in progress. Too early for details.

Storage Building (add.), Torresdale avenue, South of Orthodox street, Philadelphia, $5,000. Architect, private plans. Owner, C. Labsowicz, 2015 Orthodox street, Philadelphia. Brick, second story add., 40x100 feet, slag roof. Owner will build.

Stores (2) and Offices (alts.), Watts and Venango streets, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owner, Fred J. Schaeffer, care of architects. Changing second and third floors into offices instead of apartments, brick work, composition and pine floors, skylights, slag roof, steam heating, electric lighting, plumbing. Architects taking revised bids (subbids) due as soon as possible.

Store, Garage and Loading Platform, Sixth and Bainbridge streets, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owners, Coroneos Bros., 708 South Sixth street, Philadelphia. Brick, 2 stories, 20x50 feet and 30x30 feet, slag roof, pine and cement floors, electric lighting. Plans completed. Architect is ready for bids.

Garage and Wagon Storage, Reed and Percy streets, Philadelphia. Architect, Amos W. Barnes, Fuller Building, Philadelphia. Owners, General Baking Co., 45 East Seventeenth street, New York City. Brick and steel, 1 story, 104x80 feet, slag roof, cement floors, steel doors, rolled steel sash, stone foundations (plumbing, heating and electric work reserved). Architect taking bids due December 17th. Frank G. Stewart, 1619 Sansom street; Carr & Courtney, 43 South Seventeenth streets; Jackson & Co., 119 South Fourth street; Potts Bros. & Cooperson, 129 North Eleventh street; F. A. Havens Co., 845 North Nineteenth street, and Robbins Cont. Co., 1137 North Front street, are figuring.

Apartment Store (alts. and add.), 432-34 North Eighth street, Philadelphia. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owners, Waldman Dept. Store, on premises. Brick, 3 stories, 32x120 feet, add. 1 story and mezzanine floor, slag roof, pine floors, metal ceilings, hollow metal skylights, hot water heating, electric lighting. Architect will be ready for bids in one week.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store and Offices (alts.), 22-24 West Chelten avenue, $8,500. Architect, F. J. Boas, 201 North Broad street, Philadelphia. Owner, Pletcher, McNally & Boas Co., 5122 Germantown avenue, Philadelphia. Mill work, plastering, painting, glazing, new store front, composition and tile floors, electric work, roof repairs, sheet metal work. Contract awarded to Pringle Borthwick, 8018 Germantown avenue, Philadelphia.

Building (alts.), 1803-05 Spring Garden street, Philadelphia, $12,000. Architect, private plans. Owner, Board of Trustees, United Brotherhood of Carpenters and Joiners of America, on premises. Iron work, concrete work, hollow metal skylights, roof repairs, kalamein doors, mill work, carpentry, maple floors, composition floors, painting, glazing, metal lath, plastering. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia.

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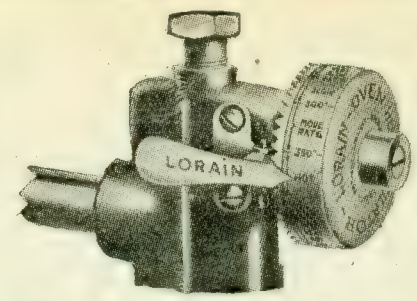
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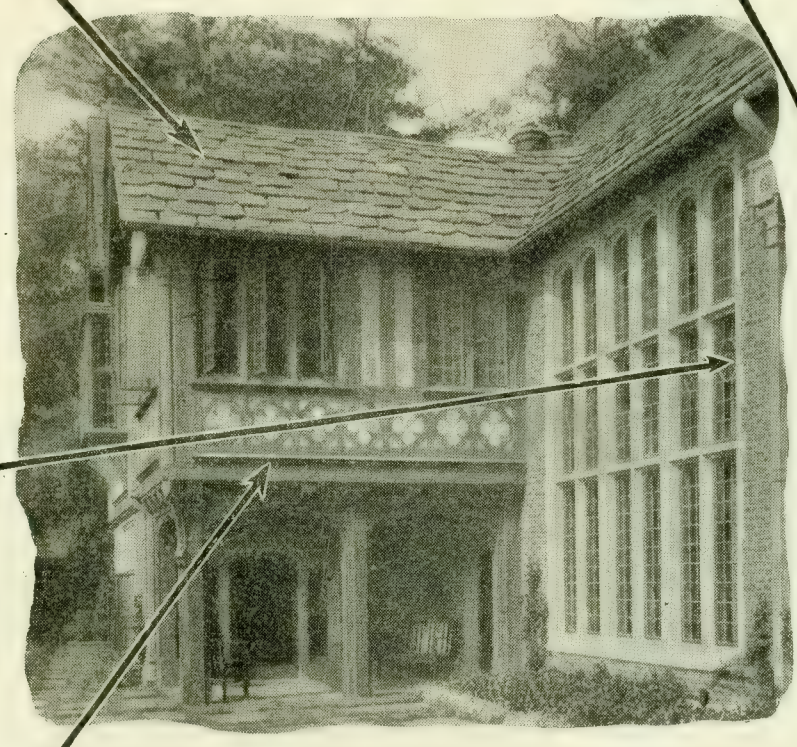
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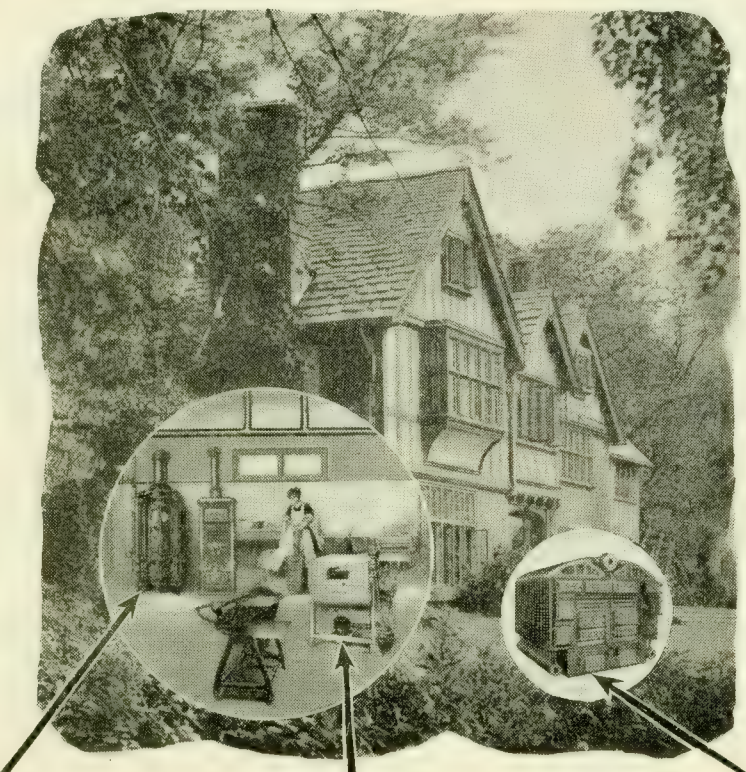


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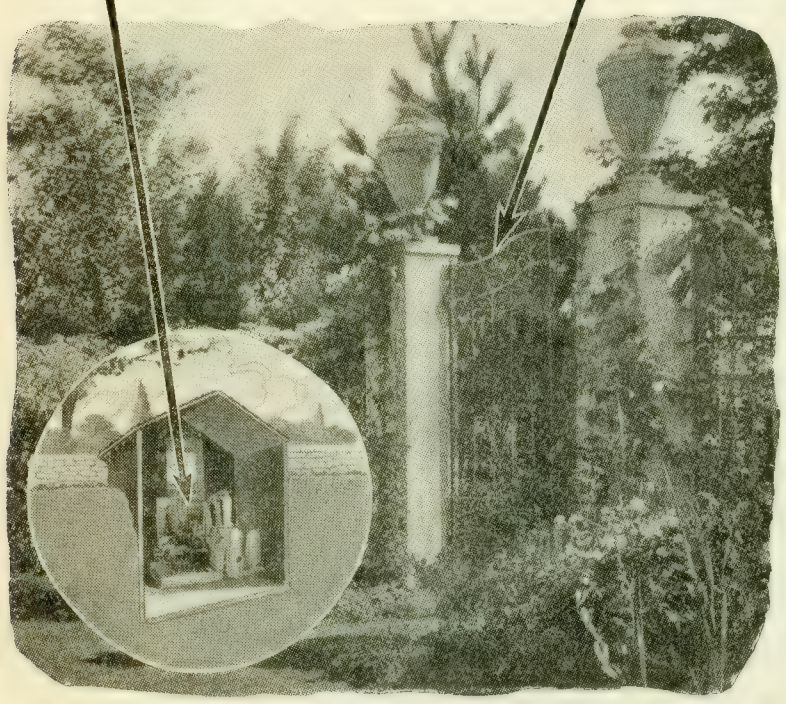
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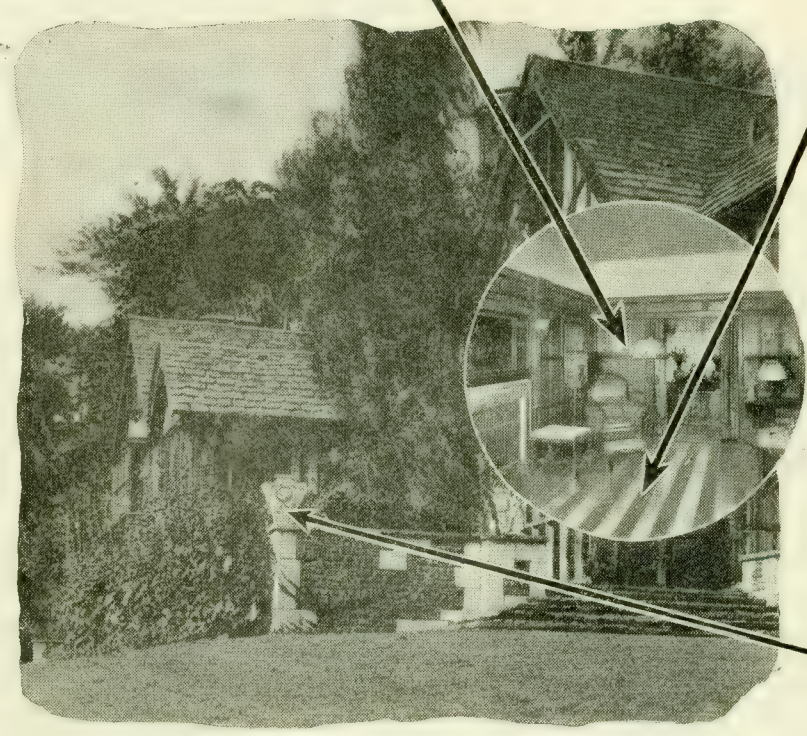
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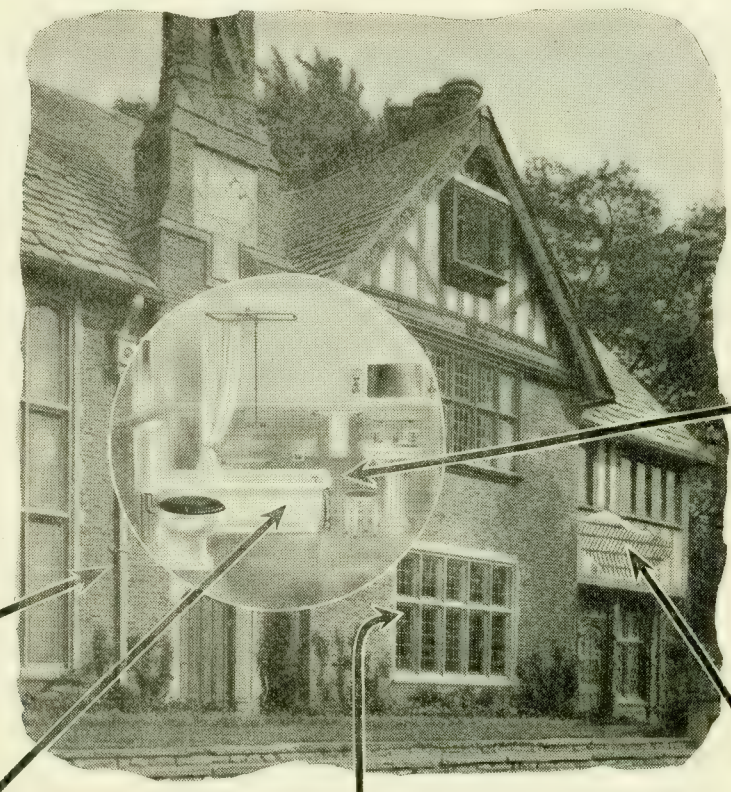


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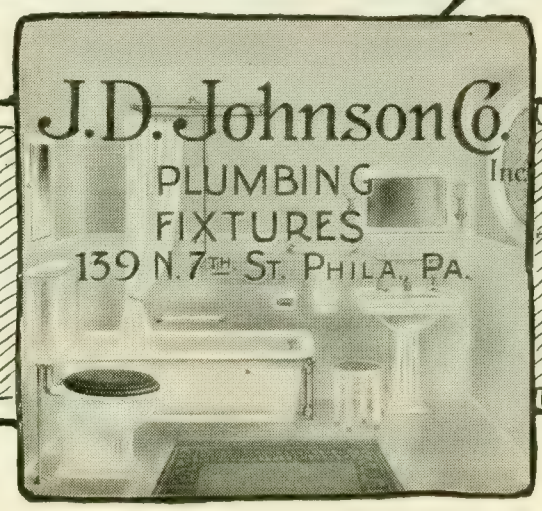


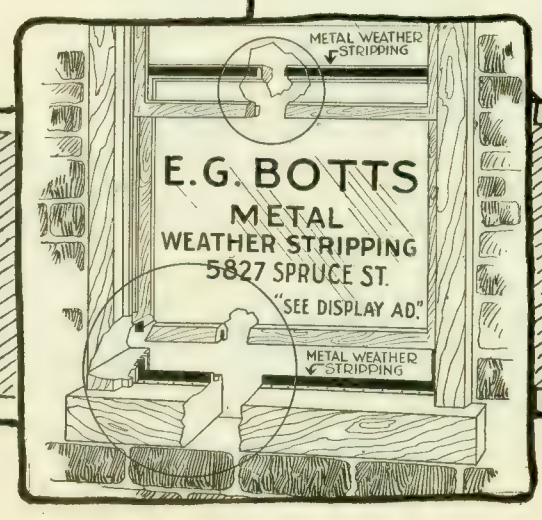




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Eighteenth street, Philadelphia, $2,000. Architect, private plans. Owner, Frank Cunningham, Flanders Building, Philadelphia. New store front, painting, glazing. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Building (alts.), 925 Chestnut street, Philadelphia, $15,000. Architect, private plans. Owners, Manufacturers' Casualty Co., Federal Reserve Bank Building. Carpentry, mill work, new partitions, steam heating, electric work, slag roof. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Foundry (add.), Sixty-first and Eastwick avenue, Philadelphia, $4,000. Owners, May Foundry, on premises. Corrugated iron siding and roof, 1 story, 15x28 feet, 8x15 feet and 25x20 feet, steel sash, electric lighting. Contract awarded to Martindale, Brumby & Roberts Co., 303 Fuller Building, Philadelphia.

Church and Sunday School, Fifty-sixth and Willows avenue, Philadelphia. Architect, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Sherwood United Presbyterian Church, Rev. D. C. Fulton, 5541 Willows avenue, Chairman Building Committee, Robert Jensen, 5714 Hatfield street. Stone, 1½ stories, 63x69 feet, slate and slag roof, pine floors, stone foundations, steam heating, electric lighting. Contract awarded to Penn Const. & Eng. Co., 3840 Spring Garden street.

Church (alts.), Southeast Corner Thirteenth and Tasker streets, Philadelphia, $10,000. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Italian Baptist Church, on premises. Tile work, metal lath, carpentry and mill work, painting, plastering, glazing, plumbing. Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Residence, Ardleigh street, South of Mt. Airy avenue, Philadelphia, $10,000. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Stone, 3 stories, 30½x36 feet, shingle roof, hot water heating, electric lighting, oak and pine floors. Contract awarded to A. S. Tourison, Jr., 7014 Boyer street, Germantown.

Apartment "H" (alts.), 6119 Jefferson street, Philadelphia, $4,000. Architect, private plans. Owner, William S. Peace, Land Title Building, Philadelphia. Fire repairs, plumbing, repairs to heating, electric work, painting and glazing. Contract awarded to Pierce-Henon Co., Bulletin Building, Philadelphia.

Residece (alts.), 5827 Woodbine avenue, Philadelphia, $8,000. Architect, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, David J. Smyth, on premises. Carpentry, mill work, painting, masonry, hot water heating, electric work, plumbing. Contract awarded to Pierce Henon, Inc., Bulletin Building, Philadelphia.

Stable (alts. and repairs), 1318-20 North Fourth street, Philadelphia, $14,000. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, I. Brosofsky, 457 North American street, Philadelphia. Brick, 1 story, 10x18 feet, slag roof, cement work, waterproofing, electric lighting, stone work. Contract awarded to Harry Wolf, 736 West Wyoming avenue, Philadelphia.

Junk Shop, 5711 Cherry street, Philadelphia, $2,500. Architect, private plans. Owner, Thomas Hanarty, on premises. Brick, 1 story, 18x40 feet, slag roof, cement floor. Contract awarded to Felix Claro, 5313 Malcolm street, Philadelphia.

Shop (add.), 1317-19-21 South Juniper street, Philadelphia, $4,600. Architect, private plans. Owners, W. S. Dougherty and W. A. Reger, on premises. Brick, 1 story, 32x37 feet, slag roof, electric lighting. Contract awarded to Jos. Wales, 1932 South Fifteenth street, Philadelphia.

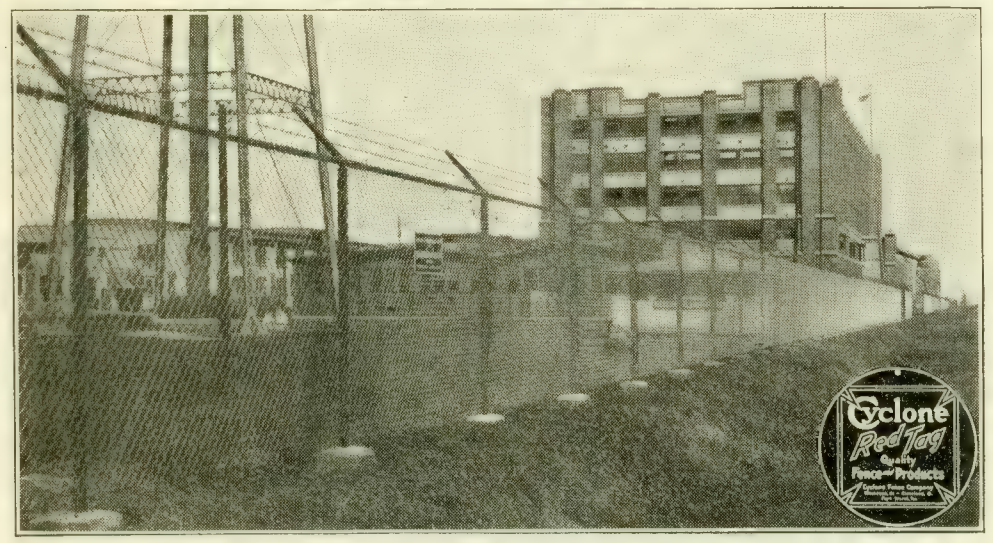
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Construction News

Hotel, Bethlehem, Pa. Architects, Ritter l Shay, North American Building, Philadelphia. Owners, Bethlehem Hotel Realty Co., care of W. J. Heller, President, Bethlehem, Pa. Concrete, steel and brick, 8 stories, 152x115 feet, oak, composition, concrete and wood block floors, hollow tile, metal lath, roof ventilators, etc. Owners have received bids.

Factory (add.), Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owner, Eisenlohr Cigar Co., Reading, Pa. Semi-mill construction, 4 stories, 65x39 feet, concrete foundation, composition roof, wood floors, steam heat, electric light, steel beams and roof trusses, fire doors, fire tower. Architect has received bids.

Residence, Osceola, Centre County, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Mr. Baird, Osceola, Pa. Brick, 2½ stories, 29x31 feet, shingle roof, concrete foundations, electric lighting, heating undecided. Plans in progress.

Residence, Servants' Cottage, Garage and Play House, Wyoming, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owner, name withheld. Stone. Too early for details.

School, Wyomissing, Pa. Architect, Claud Mengel, 1222 Penn avenue, Wyomissing, Pa. Associate architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Brick, 2 stories and basement, concrete foundations. Plans in progress.

Apartment (alt. and add.), 321 Penn street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Nathan Tersuhow, on premises. General alterations and additions, metal covered sash, fire doors, fire escapes. Plans in progress.

Fire House and Post Office, Paoli, Pa. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owners, Paoli Fire Department, Paoli, Pa. Hollow tile and stucco, 1 and 2 stories, 50x90 feet, steam heating, electric lighting, cement work. Plans in progress.

Residence, Berwyn, Pa. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owners, name withheld. Stone, 2½ stories, 20x50 feet and 14x18 feet, electric lighting, hot water heating, hardwood floors. Plans in progress.

Hospital, Waynesboro, Pa. Architects, Wyatt & Nolting, Keyser Building, Baltimore, Md. Owner, Waynesboro Hospital, care of R. J. Hoover, Chairman of Building Committee, Mr. Stoner, President of Hospital. Architect selected.

Store (alts. and add.), West King street, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Keystone Furniture Co., on premises. Brick and steel, 4 stories, 36x150 feet, terra cotta front, concrete foundations, slag roof, maple floors, electric light, tile and marble work, metal lath, elevators, rolled steel skylights, roof ventilators. Plans in progress.

School, Murrysville, Pa. Architect, M. I. Kast, 222 Market street, Harrisburg, Pa. Owner, Franklin Township School Building,

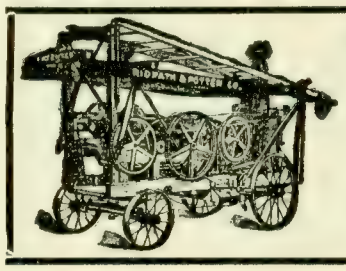


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care of M. C. Hankey, Murrysville. Brick. Too early for details.

Bungalow, Lemoyne, Pa. Architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owner, Mrs. Russ, care of architect. Brick, 1½ stories, 30x40 feet, concrete foundations, concrete and tile roof, hardwood floors, pipeless heater, electric light. Plans in progress.

Club House, Harrisburg, Pa. Architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owner, name withheld. Brick and concrete, 2 stories, 20x80 feet, concrete foundations, slag roof, pine floors, steam heat, electric light, metal lath. Plans in progress.

High School (add.), Walnut street, Harrisburg, Pa., $40,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, D. Hammelbaugh, 121 Chestnut street, Harrisburg, Pa. Brick, 3 and 4 stories, 80x200 feet and 90x150 feet, stone foundations, slate roof, hardwood floors, electric lighting, tile and marble work, hollow tile, metal lath, rolled steel skylights, roof ventilators. Plans in progress.

Warehouse, Harrisburg, Pa. Architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owner, name withheld, care of architects. Concrete, 1 story, 25x100 feet, steel trusses, composition roof, concrete floors, electric lighting, rolled steel sash, fire doors. Architect will be ready for bids in one week.

Dairy Product Building, Lemoyne, Pa. Architect, Mr. Starr, Spooner Building, Harrisburg, Pa. Owner, West Shore Dairy Co., Lemoyne, Pa. Fireproof brick and concrete, 2 stories and basement, 60x70 feet, concrete foundations, slag roof, steam heat, electric light, cement and tile floors, elevators, rolled steel sash and skylights, roof ventilators. Architect ready for bids in ten days.

Residence (alts.), East Second street, Harrisburg, Pa. Architect, F. G. Fahenstock, Patriot Building, Harrisburg, Pa. Owner, Mr. Dress, 1710 North Second street, Harrisburg, Pa. Interior alterations, mill work. Owner will sublet.

Residence, Bywood, Pa. Architects, Hance, Neely & Mitchell, 2126 Pine street, Philadelphia. Owner, Charles A. Gillingham, Twelfth and Morris streets, Philadelphia. Hollow tile and plaster, 2½ stories, 26x38 feet, shingle roof, oak floors, hot water heating, electric lighting, tile work, waterproofing. Architects taking revised bids due as soon as possible. E. A. Wheeler, 122½ North Fifteenth street; Penn Building Co., 1504 West Venango street; Penn Const. & Eng. Co., 3840 Spring Garden street; Nelson, Pedley & Co., Inc., 5247 North American street; Howard Fitzcharles, R. F. D. No. 1, Phoenixville, Pa.; D. Ridgway Evans, Beechwood Park, Pa., and Turner Const. Co., Darby, Pa., are figuring.

Church, Front and Market streets, Northumberland, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owner, United Brethren Cong., care of Rev. H. F. Bender, Northumberland, Pa. Stone. Preliminary plans being prepared. Too early for details.

Armories (alts.), Doylestown, Pottstown and Phoenixville, Pa. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owner, State Armory Board, care of Major W. G. Price, care of architect. Plastering, painting, glazing, carpentry, mill work. Architect taking bids due December 15th. Fred H. Kaiser, Pottstown, Pa.; Griffith & Hutt, Pottstown, Pa.; William R. Dougherty, 1610 Sansom street; F. G. Stewart, 1619 Sansom street, and Mitchell Bros., 2125 Race street, all of Philadelphia, are figuring.

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Armory (alts.), Media, Pa. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Media Armory, care of Major General W. G. Price, Jr., care of architect. Plastering, metal ceiling, painting, granolithic finish, concrete floors. Bond. Architect taking bids due December 15th. William R. Dougherty, 1610 Sansom street; Frank G. Stewart, 1619 Sansom street, and Mitchell Bros., 2125 Race street, Philadelphia, are figuring.

Hospital, Chester, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. James' Catholic Hospital, care of Dr. Joseph F. Dunn, Third and Lloyd streets, Chester, Pa. Architect selected. Too early for details.

Pennsylvania Contracts Awarded

Residence, Cheltenham, Montgomery County, Pa., $10,000. Architect, private plans. Owner, Emil Schneeweis, care of builders. Stone, frame and pebble dash, 2 stories, 28x26 feet, composition shingle roof, hardwood and pine floors, tile work, hot water heating, electric lighting, plumbing. Contract awarded to Geo. A. Glenn Co., Tenth and Columbia avenue, who are taking sub-bids.

Franklin Exchange (alts.), Wilkinsburg, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. General alterations and remodeling of first floor and basement. Contract awarded to Landau Bros., 311 Second avenue, Pittsburgh, Pa.

Offices (alt.), Second and Locust streets, Harrisburg, Pa. Architects, Laurie & Lappley, 206 Market street, Harrisburg, Pa. Owners, Cotterell-Ebner Co., 9 North Second street, Harrisburg, Pa. Interior and exterior alterations, plate glass, leaded glass, vapor heating, composition floors, plumbing, metal lath, elevator, structural steel, stone work, roof ventilators. Contract awarded to Central Const. Co., Harrisburg, Pa.

Residence, Front and Edward streets, Harrisburg, Pa. Architect, F. G. Fahenstock, Patriot Building, Harrisburg, Pa. Owner, G. A. Colt, 913 North Front street, Harrisburg, Pa. Brick, 2 stories, 30x32 feet, concrete foundations, hardwood floors, electric lighting, tile work. Contract awarded to Charles Lady, 119 Calder street, Harrisburg, Pa.

Residence (alts.) and Garage, 120 Simpson road, Ardmore, Pa. Architect, private plans. Owner, Charles I. Nash, on premises. Residence alts. brick work, partitions, general alterations, garage, frame, 1 story, 20x20 feet, shingle siding and roof, cement floor, electric lighting. Contract awarded to Penn Building Co., 1504 West Venango street, Philadelphia.

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New Jersey Construction News

Club House, Linwood, N. J. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Linwood Country Club, Linwood, N. J. Hollow tile and stucco, 2½ stories, 32x144 feet and 28x120 feet, shingle roof, composition, cement and tile floors, hollow tile, fire doors, rolled steel skylights, marble work, electric lighting, steam heating, stone foundations. Architects taking revised bids due December 23rd. Philip G. Hannum, Atlantic City, N. J.; Pringle Borthwick, 8018 Germantown avenue; Cramp & Co., Denckla Building; Warren-Moore Co., Colonial Trust Building; H. E. Grau Co., 1707 Sansom street; John N. Gill & Co., Otis Building; J. M. Yardley, 1716 Sansom street, and Wills-Ludwick Co., 1706 Sansom street, Philadelphia, are figuring.

High School, Phillipsburg, N. J., $300,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Board of Education of Phillipsburg, N. J., care of John Monaghan, Secretary, Phillipsbrug, N. J. Brick, 3 stories, 273x70 feet, concrete foundations, composition roof, hot air and steam heat, electric light, reinforced concrete floors, metal lath, roof ventilators, hollow metal skylight, waterproofing, dampproofing. Plans in progress.

Grade School, Phillipsburg, N. J. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Board of Education of Phillipsburg, care of John Monohan, Secretary, Phillipsburg, N. J. Brick, fireproof, 2 stories and basement, 160x100 feet, concrete foundations, composition roof, reinforced concrete floors, electric light, hot air heat, metal lath, roof ventilators, hollow metal skylights, waterproofing, dampproofing, ornamental iron work. Board will take bids in two weeks.

Church, Old Bridge, N. J. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, Rev. William A. Gilfillan, Sayreville, N. J. Brick, 1 story, 35x100 feet, pine floors, warm air heating, electric lighting, details not decided. Plans will be ready for bids in one week. Owner will build.

Residence, Ventnor City, Atlantic City, N. J. Architects, Durham Bros., 1611 Sansom streets, Philadelphia. Owner, John J. Reardon, Seventeenth and Shunk streets, Philadelphia. Brick, 3 stories, 23x62½ feet, garage in basement, asbestos shingle roof, oak and pine floors, cement floors, hot water heating, combination lighting, tile work. Plans completed. Owner will build and is ready for sub-bids.

Miscellaneous Construction News

Warehouse, 68-70-72 Charlton street, New York City. Architect, Ballinger Co., 1328 Broadway, New York City. Owner, J. D. Johnson Co., 54 Cliff street, New York City. Brick, 3 stories. Architects taking bids due December 20th. Patrick Murphy, Inc., 371 East One Hundred and Forty-fourth street; Samuel Smyth, Jr., 150 East Forty-first street; Turner Const. Co., 242 Madison avenue; Fraser Brace & Co., 1328 Broadway; J. Dall Const. Co., Grand Central Terminal; Industrial Eng. Co., 30 Church street; United Fireproofing Co., 8 West Fortieth street, and Lehigh Fireproofing Eng. Corp., 59 Wall street, all of New York City, are figuring.

Garage and Motor Cycle Sales Station, 840 French street, Wilmington, Del., $10,000. Architect, private plans. Owner, L. B. Schnepp, 2509 Jefferson street, Wilmington, Del. Brick, 1 story, 28x56 feet, slag roof, cement floors, concrete foundations, steam heating, electric lighting. Contract awarded to Smyth Const. Co., 826 Orange street, Wilmington, Del.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Dec. 6, 1920. Sealed proposals will be received at this office until 3 P. M., December 28, 1920, and then opened, for the extension of mailing vestibule at the U. S. Post Office, Corry, Pa., in accordance with the specification, and drawings mentioned therein, copies of which may be had at this office or at the office of the Custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 8, 1920. Sealed proposals will be received at this office until 3 P. M., December 30, 1920, and then opened, for remodeling post office screen at the United States Post Office and Court House, Elmira, N. Y., in accordance with drawing No. MC-115 and this specification, copies of which may be had at the office of the Custodian or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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Architect's Office, Washington, D. C., December 7, 1920. Sealed proposals will be received at this office until 3 P. M., December 29, 1920, and then opened, for raising main floor of Annex Building, at the U. S. Post Office, Brooklyn, N. Y., in accordance with the specification and drawings, copies of which may be had at this office or at the office of Alfred Brooks Fry, Supervising Chief Engineer, 731 Custom House, New York, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 1004)

The allowances for depreciation and obsolescence used in the preceding calculcation may be accepted as conservative.

Practically no reliable estimate has placed the operating cost of dwelling-house property at less than 7%.

Obviously, therefore, the old rule of thumb of a 10% gross rental should be discarded. The foregoing calculations of operating costs suggest that a gross rental of 13% is a *mimimum* economic return on such property.

A gross rental of 13% means that a house and lot worth $8,000 should rent for $1,040 a year or, roughly, $87 per month; a gross rental of 15% would mean, for such a house, a rental of $100 per month.

The rental should be related to the fair current value of the property, not to its cost, which may be more or less than its value. Depreciation and obsolescence charges are properly to be computed on the original cost. But the rental must take account of the value. Any attempt arbitrarily to regulate the rental on the basis of a lower original cost necessarily means that the competition of such rentals will discourage the building of new houses on which a similar rental would not yield an economic return. The capitalist who must face such competition is forced to look to other fields of investment.

In the case of an owner occupying his house these operating costs can be substantially reduced. Thus, the allowance for vacancies can be entirely eliminated, while various other items can be modified. In the case of an "owner's rental," so called, the operating costs might not exceed 5%.

The country today is faced with a shortage of homes for at least one million families. The population is congested beyond the highest point ever previously reached. There are at present approximately 121 families for every 100 houses against an average of 115 families per 100 houses in 1915, and 112 families for every 100 houses in 1900. In view of the rapid influx of immigration, this congestion obviously must increase unless the construction of houses is speedily resumed on an extensive scale.

The question arises, however: How can such construction be hoped for if the landlord cannot secure a fair return on his investment? The simple fact is that a community cannot expect houses to be furnished unless such housing will return a reasonable profit to the builder and to the owner who purchases for investment. When an income of 7%, 8 per cent, or more, can be secured from gilt-edge securities, it is unreasonable to expect that business men will undertake the burden and expense of building and operating dwelling-house property for 2 per cent., 3 per cent., or 4 per cent., which fairly expresses the return in a large number of cases.

Undoubtedly, there have been many instances of flagrant profiteering in rents, and no excuse should be offered for a greedy landlord or—and he is, perhaps, more often the real culprit—a grasping sub-lessor. But the investigations of nearly all official commissions agree that, in a vast majority of cases, increases in rent, instead of being extortionate, have been moderate; in many cases they undoubtedly have been inadequate. In the face of sensational increases in building costs and heavy increases in operating expenses, rents in general have risen very slowly. Thus, reports of the United States Bureau of Labor Statistics show that, while the cost of living as a whole increased 97% between 1913 and December, 1919, the average increase in rents was only 30%. Likewise, studies by the National Industrial Conference Board show that, whereas the increase in cost of food between July, 1914, and July, 1920, was 119%, that in clothing 166% and in sundries 85 per cent., the average increase in cost of shelter was only 58%.

These figures reflect one of the fundamental factors in the present housing crisis, namely, a stubborn resistance to any increase in expenditure for one of the prime necessaries of life, shelter, in the face of the most extravagant expenditure for such articles as silk shirts, silk stockings, rugs, and a hundred and one other luxuries. It is axiomatic that capital seeks the maximum rate of return, and so long as it can command double the return in the production of luxuries that it can secure through the production of housing, the present housing shortage will be unrelieved. In each case the cure for an undesirable situation is really in the hands of the consumer.

That houses will be built when the financial return is adequate is shown by the fact that, although housing in many localities came almost to a standstill, the erection of garages reached unusual proportions. Thus, whereas in 1919 only 33 tenement houses were built in Boston, 606 garages were erected at a cost of over $5,000,000. Building statistics of other cities for the current year show similar conditions. Had the erection of dwellings offered the same rate of return, there can be no doubt that builders would have been equally ready to undertake their construction.

This, then, is the crux of the housing problem, and it will not be solved permanently by any number of new legislative acts, new city ordinances, or court rulings. It will be solved permanently only through such a readjustment of rentals to real estate values as will again automatically attract capital to the building industry. So far as this readjustment can be affected by a reduction in building costs, this is highly desirable. But the readjustment must be made. And it will be made most effectively and with least friction if the tenant will distinguish between rents which are exorbitant and those which are reasonable.

* * *

INDUSTRIAL CO-OPERATION IN BUILDING

D. KNICKERBACKER BOYD

The most vital step to be taken in the building industry today is to bring the workingman, the employer, the representatives of building owners, the architects and the engineers together in a co-operative spirit, in the opinion of D. Knickerbacker Boyd, Philadelphia architect, who was recently appointed member of the Pennsylvania building code committee and who has been acting as spokesman for nearly 70,000 workmen, members of the Council of Associated Building Trades of Philadelphia and the Brotherhood of Carpenters and Joiners.

"We should consider that the interests of each group are common to all," explained Mr. Boyd, "and instead of having labor discuss hours, wages, strikes and labor problems by themselves, these matters should be taken up with the builders, architects and others who in the end, like the workingman, serve the owners and the entire community.

"With this idea in view I went before the Council of Associated Building Trades of Philadelphia and Vicinity and told them that by bringing into contact with these men the employers in their own and related fields and technically trained men from educational institutions,

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allied industries, associations and professions and national, state and municipal departments, they would become more familiar with the materials with which they worked and the tools and traditions of the craft.

"With such increased knowledge and enthuiasm journeymen would become not only more interested and efficient mechanics, but better citizens.

"After talking to the council, various committees of workingmen waited on me and brought to my attention the difficulties of attracting young men into the building trades. They said they were handicapped by the fact that the working hours of a tradesman of that sort are shortened by bad weather and exposure, and that many young men were going instead into clerical and commercial pursuits and shops. Fathers who had spent their lives in the trades were discouraging their sons from such arduous callings.

MUST IMPROVE CONDITIONS

"This whole situation would be changed by inculcating in journyemen a greater joy in their daily tasks by means of the co-operation sought.

"These conferences with the workmen's committees led to the establishment of classes on plan-reading for bricklayers and addresses on various subjects before the unions. The result of all this was that I was asked to be spokesman for the council and for the Brotherhood of Carpenters and Joiners.

"We made a proposition to the industrial relations committee of the Chamber of Commerce which is now being laid before the different builders' organizations.

"Acting as spokesman for these 70,000 workers in the building trades, I laid this proposal before the Chamber of Commerce:

" 'Labor does consider that it is of great importance to have the active co-operation of the employers in developing the human-interest side of industry and the technical phase of craftsmanship. Labor feels also that the employers should not leave to it alone the onus and responsibility of bringing into each branch of the building industry that young blood, brawn and brains which should be attracted through appreciative interest and the means of intelligent choice into these trades, and diverted from less strenuous, health-building, manly occupations. It therefore requests the active support and co-operation of employers in encouraging young men to enter the ranks of the building trades and in providing the instruction, training and practical experience requisite for apprenticeship.

" 'In making this request we desire to emphasize the fact, apparently not heretofore recognized by the majority of the employers, that those employed in the building trades are actually entitled to the assistance and co-operation of employers in securing, training and perfecting the human raw material out of which workers in these industries are produced, and in making of the material more genuinely interested and efficient mechanics, workers and citizens. To this end we further request co-operation in providing additional means of interesting and informing the journeymen already in the trades and crafts. This relates not only to those men in labor organizations at their regular meetings through lectures, illustrated addresses and informal talks, but to all the men in shops, in the field and on the job through furnishing the means of more intimate contact with their foremen and employers—and with the architects or engineers whose directions and desires it is aimed to follow.

" 'For years those employed in the building industry have been giving their time, energy and means—almost alone so far as employers collectively are concerned—to develop their organizations as instruments of service in their respective branches. If mistakes have been made, we feel that this is all the more reason why we should have the fullest co-operation of employers and of architects and engineers in the satisfactory solution of all problems.

" 'We therefore invite and request representation of employers or of their organizations and of architects and engineers at regular meetings of labor organizations or at meetings of workingmen where not organized, to take part in discussions and movements for the betterments of service on the part of the employed and of conditions surrounding their employment, and perhaps their living accommodations. This requirement is stipulated in order that workingmen may have the benefit of the knowledge and experience of those others interested in the welfare of each industry, so that all may serve the general public to the best of their abilities.

" 'This is stipulated also in order that these other elements in the building industry may be afforded the opportunity, through closer contact with workingmen, to understand their aims and aspirations. Also in order that such representatives, in addition to assisting, through this participation, may be in a position to report to their organizations or associates what present activities might, in their opinion, be discontinued, increased or improved upon through that intelligent constructive criticsm heretofore lacking by reason of the absence of opportunity to secure first-hand knowledge.'

"In conclusion I would like to repeat the watchword given by Senator Cartwright at a mass-meeting in the Academy of Music several nights ago: 'Let's stop fighting and start figuring.' "

* * *

THE FLAT FEE AS A MEASURE OF EQUITY

By John Lawrence Mauran

About ten years ago one of our most loyal and important clients came to us with an alteration and remodeling problem involving a considerable expenditure compared to the result he was seeking. He was, as we well knew, a timid man in matters wherein architects feel they are on their home grounds, although bold enough in the financial and real estate field. The exigencies of time and the character of reconstruction led us, as a condition to fulfilling his wishes, to insist on the selection of a certain contractor on a cost plus basis, and in spite of the fact that in those good days now gone by the "cost plus" had a definite limit of liability of about two hundred thousand dollars, our client showed his timidity by hesitating over the indefinite amount of our fee of ten per cent. Although we could hardly fathom the causes of hesitancy, the inspiration of the moment led us to suggest that we would do the work—whatever it might cost—for a flat fee of twenty thousand dollars. With unmistakable relief he seized upon the suggestion and everyone was happy even upon the day of completion a week ahead of time and with a saving of over seventeen thousand dollars. There is a psychology in it, for in spite of paying us some seventeen hundred dollars more than ten per cent. he had found security against the bugbear of increased costs involving increased architects' fees.

Now every architect worthy of the name would hotly repudiate the implied suggestion of bad faith, but we must remember that often the client's mind visualizes added fees with any suggested betterment, no matter how high his confidence in the disinterested character of the suggestion.

From the deep impression left on us of the satisfaction of the owner we profited a little later on when he retained us as architects for the first reinforced concrete building of any importance in St. Louis. It was an eight story wholesale building covering an entire city block and at an early stage in the negotiations, we

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perceived symptoms which led us to repeat our offer of a flat all-inclusive fee.

Our attitude through both these experiences was a more or less passive acceptance of the state of mind of a client, but quite recently we caught again the same note in the comments of clients during preliminary conferences, sounding a vague alarm as to skyrocketing of the fee in case of a pyrotechnic display in building costs.

This turned our thoughts to the two previous experiences, and changed our attitude from a passive one to an active advocacy of the fixed and all inclusive fee, and late in 1919, when the material market had all the symptoms of an ascending escalator, we expressed our desire to fix in advance the *exact obligation of the client* for full architectural services, including the fixed fees, which we in turn agreed to pay the engineers engaged by us on work in their various branches.

Of course, the percentage system applied to the estimated cost furnished the basis for determining the fee named, but the fact that it was *fixed* gave our clients every assurance that their interests were paramount, and hence while we were bending every endeavor to protect them against spectacular advances, there could be no possible ground for even the unformulated suspicion that we, too, were profiteering at their expense through the unpreventable increases in cost over the already high level of the moment.

While there was a certain amount of surprise expressed, there were unmistakable signs of appreciation of what commended itself to them as to us, as a business-like co-operation insuring justice to all concerned, for the surprise centered about an unsuspected flexibility of the architect's mind in his methods of calculating his remuneration.

It may prove of interest to record the rather unusual method we adopted in the handling of these commissions under very trying conditions. First of all we urged the immediate *selection* of a contractor of proved ability in the particular type of work, of absolute integrity and whose conditions of other work in progress at the moment justifide such a step.

We further assured our clients that they could engage such a contractor to perform the work at cost plus a *fixed fee.* We also pointed out that in the purchase of material long in advance of the preparation of plans and specifications, that the logical method of handling such an undertaking was through the functioning of a "Committee of the Whole," consisting of owner, architect, contractor, the owner's operating engineer or manager and the architect's engineers (structural, mechanical, electrical, etc.) sitting together with one common purpose to discuss, decide and act on every matter whether to purchase or the choice of methods and materials.

Another phase of "all-inclusiveness" as pertaining to the architect's fee (however arrived at) is the oft-time unspoken objection in the client's mind to the little understood separate payment of the clerk of the works, as well as the engineers. One of our clients voiced this feeling recently when he blurted out "we paid for your superintendents on the last job." From our recent experiences I can vouch for the fact that while we have been fully reimbursed, our clients' satisfaction in the "all-inclusive fixed fee" has fully justified its adoption.

In looking back over the operation of the "Committee system," the application of the "fixed fee" to sub-contractors as well as the general contractors, and especially to our own own "all-incusive fixed fee" for architectural and engineering services, there were many occasions which spring to mind when we were thankful, indeed, not only because the disinterested character of our services excluded them from the often trying discussions over jumping prices, but more particularly because of the comfortable feeling that while we were being adequately paid for the service renderd, we were not profiting by the misfortunes of our clients, and so we feel that we can conscientiously commend to the profession and to our future clients, "the flat fee as a measure of equity."—*Journal of American Institute of Architects.*

* * *

"FRAME CONSTRUCTION DETAILS

Frame construction, unlike the various other types of construction used in the erection of small buildings, has grown from various miscellaneous types which were developed by necessity in the days of the pioneer settlers into three distinct types: "balloon frame," "braced frame" and "western frame," each of which predominates in certain sections of the country.

A book entitled "Frame Construction Details," which has just been issued by the Architectural and Building Code Service of the National Lumber Manufacturers Association, shows fully the proper use of lumber in the three types. No attempt is made to establish any one of these three types as ideal and standard. This would be inadvisable and impracticable at present, as each type has developed desirable features which would not be satisfactory in combination with another type.

Various principles of economy in design and safety in construction of frame buildings are illustrated in "Frame Construction Details," as well as specific methods of fire stopping and of decreasing fire hazards.

It is the hope of the National Lumber Manufacturers Association to introduce the book into architectural schools and colleges, where there has been strong demand for such information. It is also being introduced to building inspectors, architects, engineers, draftsmen and lumber manufacturers and distributors.

* * *

COMMENDATION OF LUMBER PRICE REDUCTIONS

The most important phase to the lumber industry of the recent hearings of the U. S. Senate Committee on Reconstruction and Production, was the favorable attitude of the Committee toward the industry and its commendation of the fact that the lumber industry has taken the lead among manufacturers of building materials, in price reductions. The Committee has just completed hearings in many of the important cities of the country from New York to Denver, to Birmingham.

Testimony in many places and many instances was given to the effect that throughout the lumber industry, in both hardwoods and softwoods, prices at the mills had declined from 35% to 50%.

Specific instances, related again and again, confirmed the oft-repeated general statements that the housing needs of the country are tremendous and the situation in some sections is most serious. Inadequate transportation service, difficulty of obtaining banking and credit facilities, labor shortage and inefficiency, together with relatively high costs of materials and labor were the reasons given for the housing shortage and tie-up of construction. These conditions were described in most of the cities visited by the Committee.

In connection with their commendation of the lumber industry in taking the lead in price reductions, the Committee urged other industries making building materials to follow the lead of the lumbermen in bringing prices to lower levels.

The Philadelphia Builders' Exchange will resume its weekly luncheons Thursday, December 16th, at 12.30 P. M., at the Builders' Exchange Building, 18 South Seventh street.

Mr. W. H. Hutt, Deputy Governor, Federal Reserve Bank, will address the meeting on "Federal Reserve Banking System as It Relates to the Business Man."

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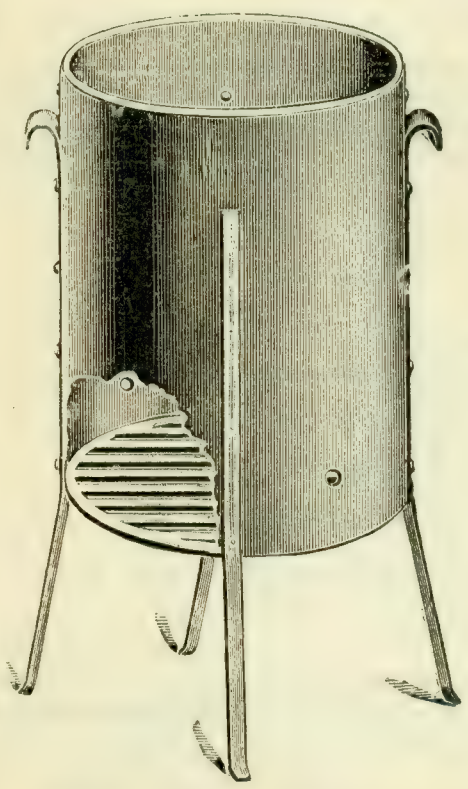
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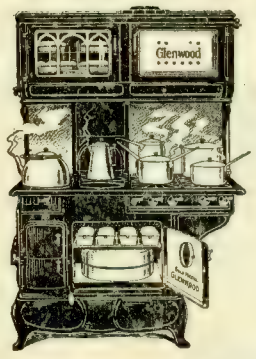
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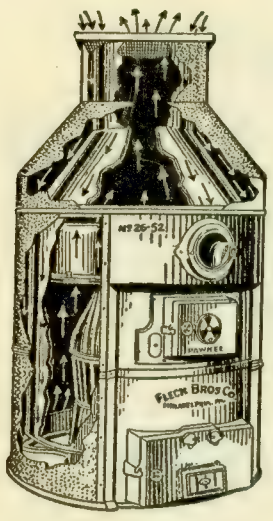


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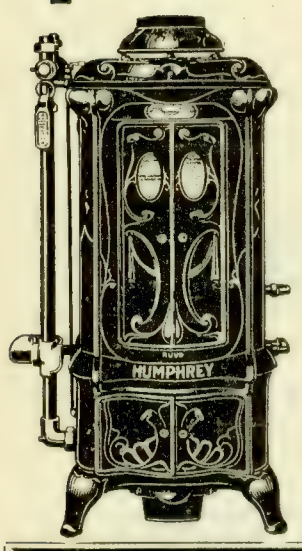
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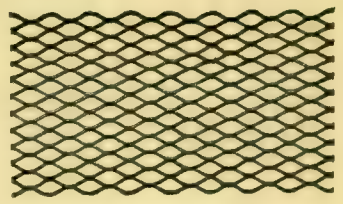
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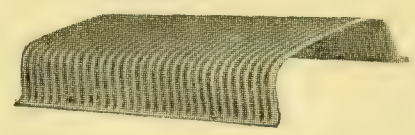
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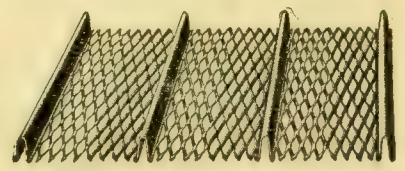
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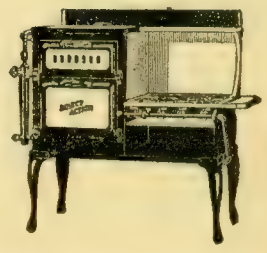
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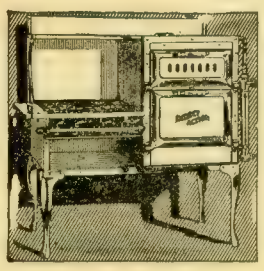


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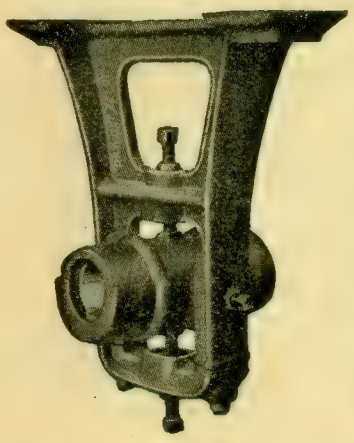
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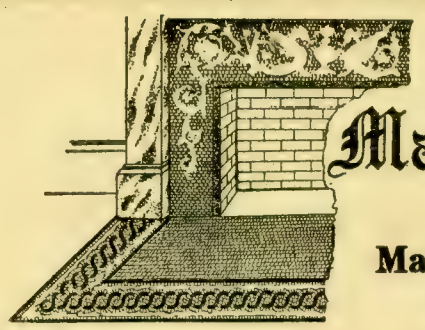
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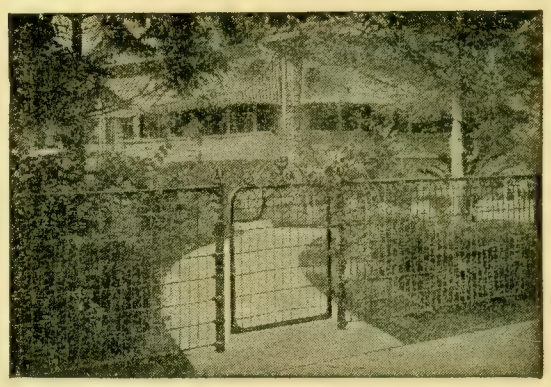
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXV
Number 51

PHILADELPHIA
December 22, 1920

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As The Editor Sees It

THE current of optimism, which we commented on in the GUIDE last week, is still running through the building field. Conditions are becoming more settled; prices are being stabilized, financial difficulties are nearer a solution and the whole question assumes a brighter aspect.

Architects, during the past year, have figured on a great deal of contemplated work, much of which has been held in abeyance until financing building is possible, and the feeling expressed is that this work will be taken up very soon after the new year.

S. W. Straus & Co., New York bankers, comment on the building situation as follows.

"Although the processes of liquidation now in progress have brought recessions in the prices of nearly every commodity of life, it is of the utmost significance that rents have not receded generally and that the tendency of prices for housing accommodations is toward higher levels, thus making more substantial the income from property.

"It is also noted that a well-defined sentiment against a higher interest rate than 6 per cent. for first-class real estate mortgages is making itself felt.

"Unquestionably, a far-reaching and permanent readjustment of income from real estate investments is taking place. It is a fact generally conceded that in many instances and localities income from improved property previous to the war was too low. Estates and large holders of realty in such cases were not able to secure a return commmensurate with the income derived from many other forms of investment.

HELP FOR HOUSING SITUATION

"An indefinite continuation of those conditions would mean a slowing down of the building industry; and the present readjustmets of rental incomes, therefore, is a very favorable indication and will help the entire housing situation and real estate market.

"While there has been a great amount of public agitation against the present range of rents, it must be borne in mind that any conditions or influences, whether they be legislative or economic, which have the ultimate effect of diverting capital from building investments to other channels, simply impose additional hardships on the public in the long run.

The law of supply and demand must hold full sway in the final analysis. Property rights must be safeguarded, and if the nation's housing conditions are to be restored to normal everything possible must be done to encourage the flow of capital through those channels of investment and not divert it elsewhere through adverse legislation which would stop progress, or through unsound financing brought about by too high interest rates on real estate investments.

Earl F. Stokes, Builders' Exchange, Erie, Pa., believes that now is the time to build and says, according to the *Builders' Journal*:

Although prospects for building are not very encouraging in this section of the country at the present time, and from present indications there will be more men looking for work in the building trades lines, this winter, than any time since 1912, it does not always help to fall in with prevailing views.

One large contractor in this vicinity says that now is the opportune time to build. We can get the pick of skilled mechanics, much of the material we had difficulties in getting can be supplied now at a lesser price than three months ago and with the transportation problems fast clearing up conditions are more favorable than they will be next spring when there will be labor shortage and another possible shortage of materials and a greater congestion of transportation. This contractor is correct and the public should be informed of these conditions through the Chamber of Commerce and the Build a Home Campaign Committee in every city.

In a report made a few weeks ago at a convention held in Detroit, it was stated that the replies to a questionnaire showed a decrease in production from 8½% to as high as 31%, regardless of the fact that the same questionnaires showed an increase in wages from 10 to 32% over

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1918-1919. In one city with a population of only 95,000 an increase of wages amounting to $876,500 has been granted to the building trades industries alone over what they received in 1919. The public pays this bill, yet it cannot understand why building operations run so high.

* * *

"The American Society of Heating and Ventilating Engineers will hold the Professional Sessions of its Annual Meeting in the City of Philadelphia on January 26-27-28, 1921.

This is the first time since the Society was formed in 1894 that an Annual Meeting has been held outside of New York City, and it has been made possible by the indomitable efforts on the part of the Eastern Pennsylvania Chapter of the Society which is affiliated with the Engineer's Club.

While the local Chapter was only organized in 1916, it has increased in membership and activity to the point that it is now the largest of the eleven Chapters and the preparation for handling the meetings and entertainment of the members has been taken hold of in characteristic Philadelphian manner.

The Bellevue Stratford Hotel has been selected as Headquarters where the meeting will be held in the Clover Room and where a reception will be held on the evening of January 25th, to welcome the visitors who may come in advance of the meetings.

The Banquet which will take place on January 27th, also in the Bellevue Stratford, promises to be quite pretentious with prominent speakers representing The State, The City and The Industrial Interests, while several novel features will be introduced.

The Engineers' Club, through it's President, have issued an invitation to all members of the Society to avail themselves of the privileges of the Club during their stay in this city and the Society and Chapter extend to all members of the Engineers' Club an invitation to attend the meetings which will be of unusual interest to those having a knowledge of Heating and Ventilation.

The American Society of Heating and Ventilating Engineers maintain a Research Bureau at the Bureau of Mines at Pittsburgh, and are making great strides in this department of the work. In order that all members and contributors to the fund may become more intimately acquainted with what is being done toward the advancement of the Science, arrangments are being made to have a special exhibit of the devices in use and with charts and diagrams showing the results of tests.

The director of the Bureau and his associates will be on hand to explain the details of this department and will take part in the discussion of the papers which will be read during the week.

With the co-operation of the Engineers' Club and the Philadelphia Chamber of Commerce, the Eastern Pennsylvania Chapter feels that this will be one of the greatest Engineering Meetings held in Philadelphia and hope to make it the greatest meeting of the Society."

* * *

SOLID BRICK ECONOMICAL AND EVERLASTING

To most people the building or buying of a house is an investment of the first magnitude. Very frequently a man's entire lifelong savings are represented in his home, and in case of sickness or misfortune his ability to raise money will depend entirely upon its selling or loanable value. A man should set about acquiring a house with as much care as he used when he picked his wife.

The wise man will ask "Will my investment, represented by my house, yield a fair return? How much will its value decrease, year by year, through wear and tear? What will be the cost of its upkeep? If I ever have to sell it, how much will it be worth? If I ever have to raise money, how much could I borrow on it?" He will also ask "Is it going to be comfortable to live in? What are the chances of it burning up and burning me out?"

These are all pertinent questions, and the answer to every one of them depends upon the answer to another question "Of what material will your house be built?"

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Brick is one of the most beautiful of building materials, and one in which all kinds of architectural designs may be easily conceived and carried out. Those who have traveled in the old world probably remember the charming houses and villages of brick, centures old, which seem only to grow more mellow under the hand of time.

Even in this country we may point with satisfaction to landmarks such as Independence Hall, Philadelphia, built of solid brick in 1729, and still in perfect condition. Another solid brick structure is the little house in which Betsy Ross made the first American flag. Then there is the

(Continued on Page 1029.)

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Residence, Germantown, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Joseph F. Bege, 85 East Wister street Germantown, Philadelphia. Stone, 3 stories, 18x46 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Architect is revising plans and will take new bids after January 1.

Residence (alts. and add.), 2805 Queen Lane, Germantown, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Miss Hannah Hockman, on premises. General renovation. Sketches being drawn.

Factory (fire repairs), 1006 Vine street, Philadelphia, $2,900. Architect, private plans. Owner, Samuel Stern, on premises. New slag roof, carpentry, mill work, painting, glazing. Owner will build.

Riding Academy, Southeast Corner Twenty-fifth and Callowhill streets, Philadelphia. Architects, Hance, Neely & Mitchell, 2126 Pine street, Philadelphia. Owners, Parkside Riding Academy, care of Edwin J. Spriggs, premises. Steel frame, corrugated siding and roof, 80x100 feet, hollow metal sash, electric lighting. Revised plans in progress.

Bank Building (alts. anl add.), 610 South Second street, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Southwark National Bank, W. W. Foulkrod, Jr., President, on premises. General alterations and additions. Plans and specifications in progress.

Store and Apartments (alts. and add.), Northeast Corner Randolph street and Girard avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Dr. I. H. Greenfield, Fifth and Girard avenue, Philadelphia. General alterations, carpentry, mill work, electric lighting, plumbing, plastering, painting, glazing, flush bulks. Plans completed. Architects are ready for bids.

Apartment House (alts.), Northwest Corner Nineteenth and Erie avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Thomas J. Minnick, North American Building, Philadelphia. Brick, 3 stories, general alterations. Preliminary plans in progress.

Building (alts. and add.), 261 South Sixth street, Philadelphia. Architects, Joseph M. Huston and Stanford B. Lewis, Dexter Building, Philadelphia. Owners, Presbyterian Board of Publication, Witherspoon Building, Philadelphia. Brick and steel, 1 story, 36x42 feet, slag roof, pine and composition roof, metal lath, elevators, metal ceilings, iron work, hollow metal and fire doors, rolled steel sash, electric lighting, steam heating, stone foundations. Architects are taking sub-bids.

Office, Storage Building, Garages and Repair Shop, Forty-third and Woodland avenue, Philadelphia. Owners, Jump House Wrecking Co., Thirtieth and Callowhill streets, Philadelphia. Architect, J. M. Levin, 1001 Chestnut street, Philadelphia. Brick, 2 stories, 20x40 feet, and 1 story, 40x80 feet, and garages (15), 11x30 feet, repair shop, 1 story, 26x60 feet, slag roof, cement and pine floors, mill work, rolled steel sash, fire doors, stone foundations, steam heating, electric lighting. Owners will build and are taking sub-bids.

Bank Building (alts.), 1421 Walnut street, Philadelphia. Architects, Benham & Richard, 214 East State street, Columbus, O. Owners, R. L. Dollings Co., Widener Building, Philadelphia. Limestone front, electric elevator, cabinet work, tile work, carpentry, mill work (plumbing, heating and electric work reserved). Architects taking bids due December 28th. Jacob Myers & Sons Co., Witherspoon Building; A. R. Raff Cont. Co., 1635 Thompson street, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Fire Tower, Eleventh and Tabor Road, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Hebrew Sheltering Home, on premises. Brick, 3 stories, 16x20 feet, slag roof, concrete floors. Architects have received bids.

Store (alts. and add.), Northwest Corner Sixtieth and Market streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Stores Company, 5 South Tenth street, Philadelphia. Brick and steel, 1 story, 10x19 feet, slag roof, pine floors, stone foundations, tile and marble work, skylights, metal ceilings, waterproofing, tile work, steel and iron work (mill work, plate glass, electric work and kalamein bars reserved). Owners have received bids.

Store Building (alts.), Northeast Corner Sixtieth and Market streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owner, United Cigar Stores Company, 5 South Tenth street, Philadelphia. Marble work, steel and iron work, carpentry, hardware, tile work, plastering painting, plumbing, sheet metal work (electric work, mill work, plate glass and kalamein bars reserved). Owners have received bids.

Store Building (alts.), Northeast Corner Germantown and Lehigh avenues. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, name withheld. Brick work, cut stone, pine floors, marble and terrazzo work, hardware, plastering, skylights, slag roof, steam heating, electric work. Bond. Architects have received bids.

Inspection Shop, Cont. 591, Frankford avenue and Bridge street, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, care of William S. Twining, 1211 Chestnut street, Philadelphia. Owners taking bids due December 28th.

Power House (add.), Farm Buildings and Cottages (add. and extension), City Farms, Byberry, Philadelphia. Architect, private plans. Owners, City of Philadelphia, care of Director C. Lincoln Furbush, M. D., Department of Health, 584 City Hall, Philadelphia. Owners taking bids due December 28th at noon.

Loading Shed, 701-03 Marshall street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owners, Coroneos Brothers, 708 South Sixth street, Philadelphia. Brick, 1 story, 27x24 feet, slag roof, cement floors, concrete foundations, fire doors, plumbing. Architect has received bids.

Warehouse, No. 5 (alts.), Twenty-first and Oregon avenue, Philadelphia. Architect, private plans. Owners, United States Government, care of Major A. L. Lemon, Q. M. Dept., on premises. Remodeling warehouse into factory building. Plans about completed. Owners will soon take bids.

Station Platform, Cont. No. 548, Front and Fairmount avenue, Philadelphia. Architect,

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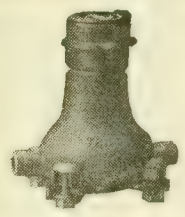
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private plans. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Concrete work, concrete floors, wood and slag roof, asbestos board roofing, painting, steel sash. Lowest bids submitted by H. E. Baton, 1713 Sansom street, $70,895, slag roof, and $71,395, asbestos roof.

Buildings (extensions), Byberry Farms, Philadelphia. Architect, John P. B. Sinkler, 826 City Hall, Philadelphia. Owner, Philadelphia, Hospital for Insane, Byberry, Philadelphia. Building No. 3, 2½ story add., frame, 12x32 feet, Building No. 2, 1½ story add., frame, 97x20 feet and 42x39 feet. Building No. 1, 1½ story add., frame, 20x16 feet, power house add., 1 story add., Robertson's Process metal siding and roof, 80x24 feet, cement floor, stone foundations for all buildings except power house, tin roof, pine and composition floors, cement work, carpentry, mill work, plastering, metal work, metal weather strip, Bond (plumbing, heating and electrical work, separate bids). Owners taking bids due December 28th. Mitchell Bros., 2125 Race street; E. C. Durell, 1713 North Twenty-fourth street; George Dobbin, 4615 Springfield avenue; F. A. Havens Co., 845 North Nineteenth street, and George H. Evans, Inc., 45 North Thirteenth street, are figuring.

Shelter Extension, Summerdale Station, Philadelphia. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R., Reading Terminal, Philadelphia. Shingle, 1 story, 67x31 feet, slate roof, concrete foundations, painting and carpentry, iron work. Owners have received bids.

Residence (alts. and add.), Sixthy-fourth and Overbrook avenue, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Percival Johnson, on premises. Carpentry, mill work, cement work, oak floors, hardware. Architects have received bids.

Building, 1339 Vine street, Philadelphia. Architects, Hoffman-Henon, Inc., Bulletin Building, Philadelphia. Owners, Peerless Film Exchange, on premises. Mill work, electric work, plate glass, steam heating, plumbing, slag roof, pine floors, concrete work. Architects have received bids.

Residence (alts.) to Apartments, 709-11 Locust street, Philadelphia. Architect, Charles F. Spiess, 713 Raymond street, Philadelphia. Owners, W. B. Saunders Co., West Washington Sqaure, Philadelphia. Iron work, carpentry, metal sash, skylights, tile work, composition floors, plastering, electric work, plumbing (heating reserved). Owners have received bids.

Store and Office Building (alts. and add.), Southeast Corner Broad and Wharton streets, Philadelphia. Architect, Frank V. Nickels, 4400 Manayunk avenue, Philadelphia. Owner, John Reale, Tenth and Filbert streets, Philadelphia. Brick, 4 stories, 100x24 feet, slag roof, composition floors, carpentry, mill work, iron work, tile work (plumbing, heating and electric work reserved). Bond. Architect has received bids.

Supplies, City of Philadelphia (Fairmount Park). Owners, Commissioners of Fairmount Park, 127 City Hall, Philadelphia. Lumber, bricks, cement, gravel, hardware, paints, glass, cut iron, plumbers' supplies, tin, border irons, terra cotta pipe, manure, fertilizers, broken trap rock and screening, broken slag, sundries and electric and naphtha lights, tree guards, top soil and nursery stock. Owners taking bids due December 27th at 11 A. M.

Miscellaneous Work, Fairmount Park, Philadelphia. Architect, private plans. Owners, Commissioners of Fairmount Park, care of Alan Corson, Chief Engineer, Room 127, City Hall, Philadelphia. Construction of river wall, demolition of buildings on Parkway, paving, cut granite curbing, vitrified and slag blocks, cleaning wells, fencing, granolithic and asphalt pavements. Owners taking bids due December 27th at 11 A. M.

Supplies, Department of Public Works, City of Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of Water, care of Frank H. Caven, Director, Room 216, City Hall, Philadelphia. Feed water heater for Queen Lane Pumping Station, Cont. No. 448, artesian wells to be driven in League Island Park, Cont. No. 450, reduction gears, Shawmont Pumping Station, Cont. 451, soot blowers for boilers, Cont. No. 452. Owners taking bids due December 28th at noon. Information may be obtained at 796, City Hall.

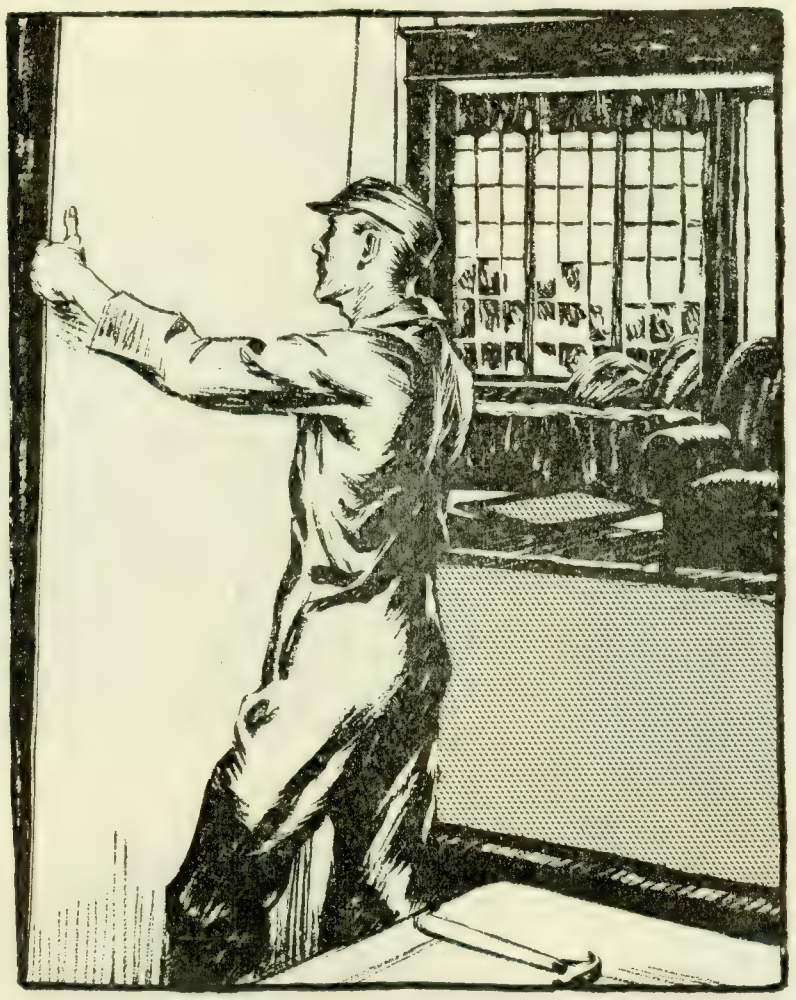
Warehouse and Garage, 1529 Parrish street, Philadelphia. Architect, Amos W. Barnes, 10 South Eighteenth street, Philadelphia. Owners, F. A. North & Co., 1306 Chestnut street, Philadelphia. Brick, slow burning construction, 4 stories, 28x177 feet, slag roof, pine and cement floors, elevator. Plans in progress. Architect will be ready for bids in about ten days.

The Master Builders' Exchange will again hold the weekly luncheon on Thursday, December 23rd, at 12.30 in the Exchange Building. Dr. Milton Harold Nicholas will be the speaker.

The annual vaudeville and smoker of the Exchange will be held on Friday, December 31st, at 2 P. M.

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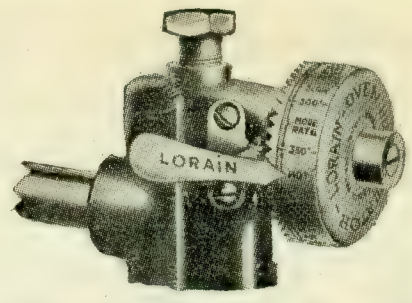


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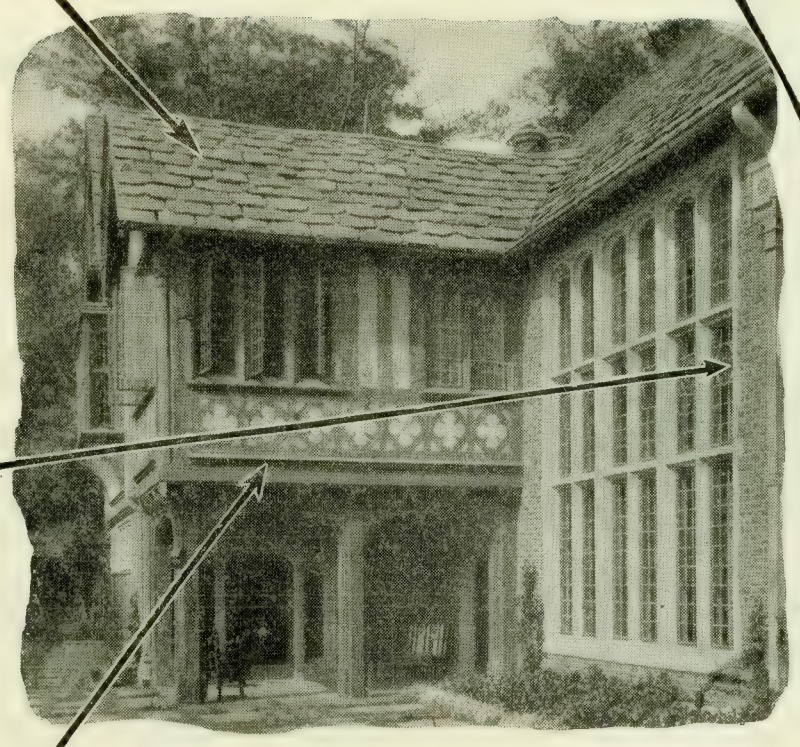


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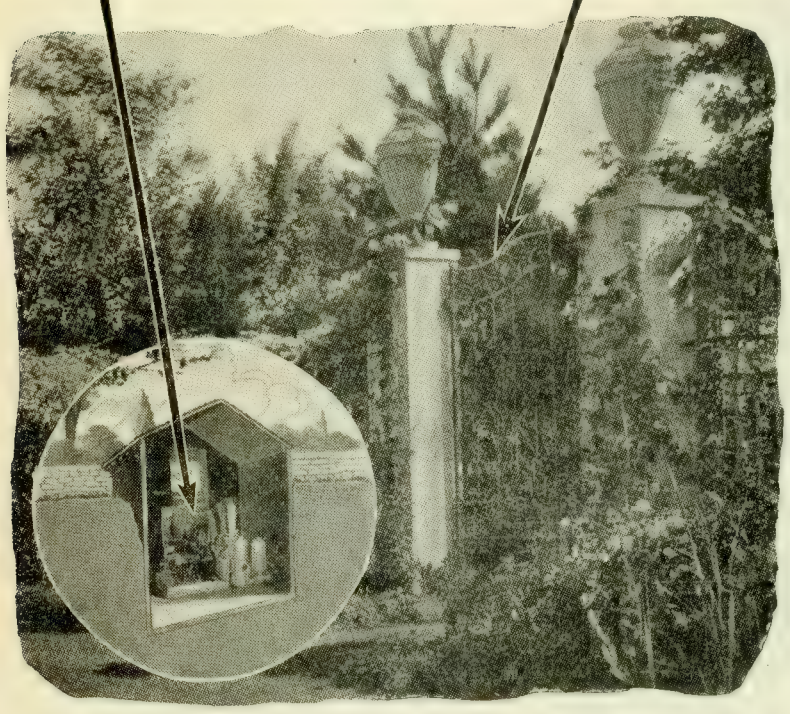
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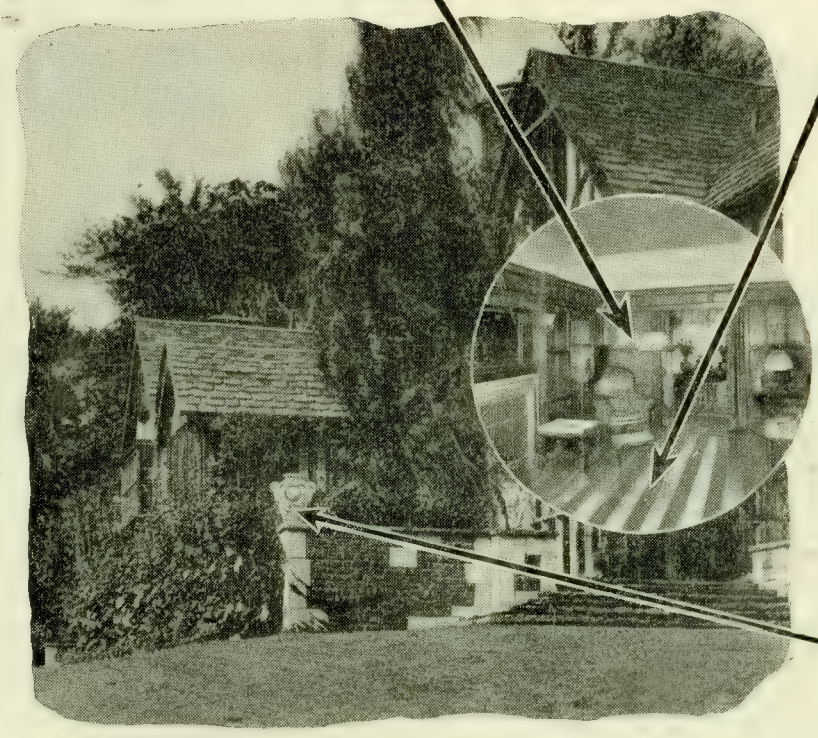
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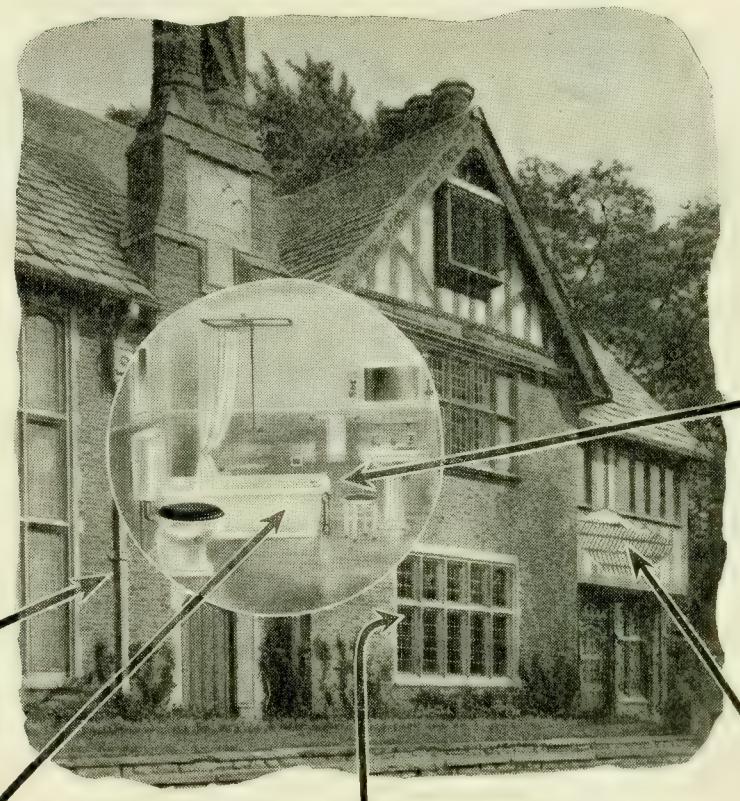
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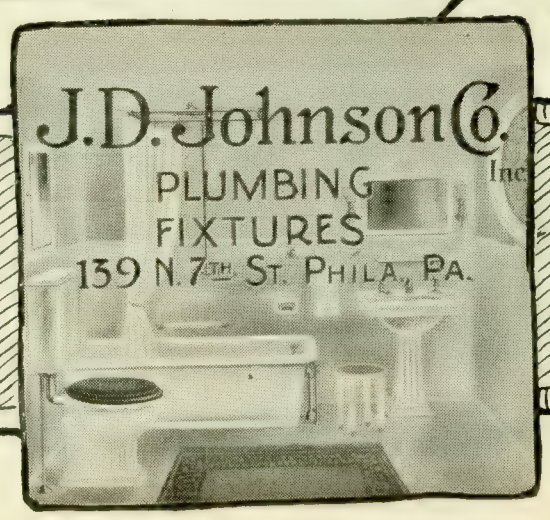
Tile

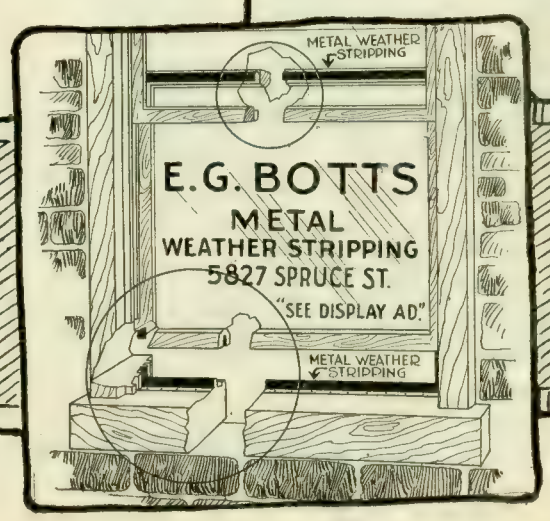
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store Building (alts.), 202-04 North Broad street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, General Realty Co., Stock Exchange Building, Philadelphia. Steel work, concrete and pine floors, metal lath, plastering, waterproofing, iron work, slag roof, painting. Contract for carpentry and mill work awarded to W. O. Springer, 2004 Naudain street, Philadelphia.

Manufacturing Building (fire repairs), Northeast Corner Twenty-third and Cherry streets, $20,000. Architect, private plans. Owners, Creswell Iron Works, on premises. Carpentry, mill work, painting, glazing, iron work. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Warehouse (alts.), 241 Chestnut street, Philadelphia. Architect, A. D. Ansty, 162 West Twentieth street, New York City. Owners, James F. White & Co., Inc., 12 and 14 South Orianna street, Philadelphia. General alterations. Contract awarded to James F. Egan Co., Inc., 162 West Twentieth street, New York City.

Store and Dwelling (add.), Southeast Corner Ninth and Bainbridge streets, $4,800. Architect, private plans. Owner, Mrs. Francesca Scavetta, 822 Fitzwater street, Philadelphia. Brick, 3 stories, 12x15 feet, slag roof, pine floors, electric work. Contract awarded to Nicholas Scurci, 1709 South Eleventh street, Philadelphia.

Building (alts.), Forty-ninth street and Gray's avenue, Philadelphia, $5,000. Architect, private plans. Owners, Tide Water Oil Co., on premises. Cement floors, new slag roof, carpentry, mill work, painting, steel work, glazing skylights. Contract awarded to Graham & Wells, 3649 Filbert street, Philadelphia.

Store and Dwelling (alts. and add.), 1208 North Fourth street, Philadelphia, $4,000. Architect, private plans. Owner, Samuel Shulman, 418 West Thompson street, Philadelphia. General alterations, flush bulk, electric work. Contract awarded to Shechtman Bros., 1540 North Sixth street, Philadelphia.

Passageway (alts.), State Road and Rhawn street, $28,792. Architect, John P. B. Sinkler, 826 City Hall, Philadelphia. Owner, Home for Indigent, Holmesburg, Philadelphia. Siding steel, 97 feet long, 8 feet wide, slate roof, composition floors, hollow tile, metal lath, safety treads, metal weather strips, iron work, marble work, concrete foundations, hollow metal doors. Bond. Contract awarded to Mitchell Bros., 2125 Race street, Philadelphia.

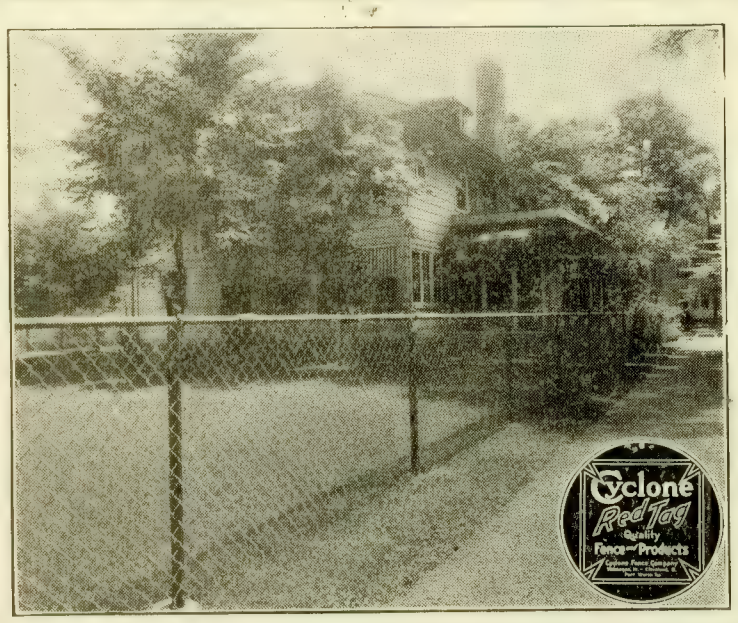
Store (alts.), 1214 Chestnut street, Philadelphia, $4,000. Architect, private plans. Owner, George Allen, on premises. New elevator shaft, stone work, concrete work, elevator doors and skylights. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

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Pennsylvania Construction News

Apartment House, Drexel Hill, Pa. Architects, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, J. Taylor, care of architect. Stone, 2 stories, 30x40 feet, electric lighting, pine and hardwood floors. Plans in progress.

Residence, Derwent Road and Bryn Mawr avenue, Cynwyd, Pa. Architect, E. F. Hoffman, Jr., Franklin Bank Building, Philadelphia. Owner, name withheld. Stone, 3 stories, 40x30 feet. Plans in progress. Too early for details.

Montrose Central Office Building, Pittsburgh, Pa. Architect, John T. Windrim, 1501 Commonwealth Building, Philadelphia. Owners, Bell Telephone Co. of Pennsylvania, 17th and Arch streets, Philadelphia. Cut stone, brick, concrete and steel, 3 stories, 125x61 feet, wing 40x62 feet, slag roof, cement floors, metal lath, waterproofing, iron work, tile and marble work, electric lighting, vacuum steam heating, stone foundations. Architect taking bids, due January 3rd. Irwin & Leighton, 126 North Twelfth street, and Hughes-Foulkrod Co., Commonwealth Building, are figuring.

Residence, Bywood Pa. Architects, Hance, Neily & Mitchell, 2126 Pine street, Philadelphia. Owner, Charles Gillingham, Twelfth and Morris streets, Philadelphia. Hollow tile and stucco, 2½ stories, 25x38 feet, shingle roof, oak and pine floors, hollow tile, waterproofing, hot water heating, electric lighting, tile work (slate roof alternate). Architect taking bids, due December 27th. E. A. Wheeler, 122½ North Sixteenth street; Penn Building Co., 1504 West Venango street; Penn Const. and Eng. Co., 3840 Spring Garden street; Nelson, Pedley & Co., Inc., 5247 North American street; George H. Evans, Inc., 45 North Thirteenth street; Howard Fitzcharles, R. F. D. No. 1, Phoenixville, Pa.; D. Ridgway Evans, Beechwood Park, Pa.; George B. Turner, Highland Park, Pa., and Ehli & Powell, Lansdowne, Pa., are figuring.

Church (alts. and add.), near Fourth and Edward streets, Chester, Pa. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owner, St. Daniel's Methodist Episcopal Church, care of Rev. J. L. Hughes, 1421 West Third street, Chester, Pa. Brick, 2 stories, 20x50 feet, shingle roof, steam heating, electric lighting, plastering. Contract awarded to Frederick W. Brown, Chester, Pa.

New Jersey Construction News

Ice Plant, Woodlynne, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, Camden Ice Co., on premises. Concrete, 1 story, 100x180 feet, concrete foundations and floors, slag roof, electric light, boiler equipment. Sketches in progress.

Stores and Offices (alt. and add.), 544-46 Federal street, Camden, N. J. Architect, B. H. Lackey, 509 Federal street, Camden, N. J. Owner, name withheld. Brick, 3 stories, 40x110 feet, stone foundations, slate roof, maple floors, steam heat, electric light, tile and terrazzo work, metal lath, rolled steel skylights, roof ventilators. Plans in progress.

Residence, Woodstown, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, name withheld. Hollow tile, 2½ stories, 20x40 feet, concrete foundations, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect will sublet.

Residence, Woodstown, N. J. Architects, Cuter & Gill, 304 Market street, Camden, N. J.



"Preserving" a New Building

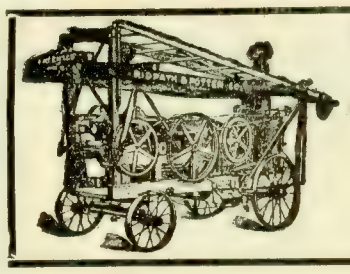
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Owner, name withheld. Frame, 2½ stories, 22x40 feet, concrete foundations, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect will sublet.

Apartment, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, name withheld. Brick and stone, 3 stories and basement, 75x30 feet, stone foundations. Sketches in progress.

War Memorial Building, Pacific avenue, Atlantic City, $100,000. Architect, H. Vaughn, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, care of Mr. Steinbricker, City Com., City Hall, Atlantic City, N. J. Stone, fireproof, 3 stories and basement, 55x100 feet, stone foundations, maple floors, electric lighting, tile work, metal lath, terrazzo floors, plumbing. Preliminary drawings in progress.

Hotel and Stores (alts.), Virginia avenue and Beach, Atlantic City, N. J. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City. Owner, Senate Hotel, care of Mr. Clark, Phoenix Trust Co., Twenty-ninth and Dauphin streets, Philadelphia. Plumbing, mosaic floors, tile work, plate glass, metal ceilings, interior work. Plans in progress.

Garage, Rhode Island and Atlantic avenues, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City. Owner, Joseph Shapiro, on premises. Brick, 1 story, 18x23 feet, concrete foundations, slag roof, cement floors, electric lighting, galvanized cornice. Plans in progress. Owner ready for bids this week.

Residence and Offices (alts. and add.), Rhode Island and Atlantic avenues, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, Joseph Shapiro, on premises. Cement block, 1 story, 14x23 feet, slate roof, hardwood floors, electric light, plate glass, general interior work. Owner taking general bids due as soon as possible. Max Dolinky and Yarnov Schenkman, both of Atlantic City, N. J., are figuring.

College, New Brunswick, N. J., $100,000. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, Agricultural College of New Jersey, care of architect. Brick, 2 stories and basement, 86x50 feet, concrete floors, steam heat, electric light, tile work. Plans in progress.

Store, 155-57 South Broad street, Trenton, N. J. Architect, J. O. Hunt, 114 North Montgomery avenue, Trenton, N. J. Owner, Mr. D. J. Bechtel, care of architect. Brick, steel, 1 story, 30x80 feet, stone foundation, slag roof, pine floors, steam heat, electric light, tile, marble and terrazzo work, metal lath, roof ventilators, waterproofing, dampproofing. Architect ready for bids in one week.

Residence (alts.) to Office and Apartment, 211 North Montgomery avenue, Trenton, N. J. Architect, J. O. Hunt, 114 North Montgomery avenue, Trenton, N. J. Owner, J. H. Morris, Broad Street Bank Building, Trenton, N. J. Brick, 3 stories, 22x40 feet, slag roof, pine floors, hot water heat, electric light, new front, general interior alterations. Owner will sub-let.

Hotel (alts.), Hopewell, N. J. Architect, J. O. Hunt, 114 North Montgomery avenue, Trenton, N. J. Owners, Central Hotel, care of F. A. Jackson, on premises. Interior alterations, new partitions, steam heat, electric light. Plans in progress. Owners will sub-let.

Shipping Office, Union and Federal streets, Trenton, N. J., $3,000. Architect, private plans. Owners, American Bridge Co., Warren street, Trenton, N. J. Brick, 1 story, 37x17 feet, concrete foundations, asbestos shingle roof, electric lighting. Owners will build.

Hospital, Union and Federal streets, Trenton, N. J., $6,000. Architect, private plans. Owners, American Bridge Co., Warren street, Trenton, N. J. Brick, 1 story, 36x18 feet, concrete foundations, asbestos shingle roof, pine floors, steam heat, electric light. Owners will build.

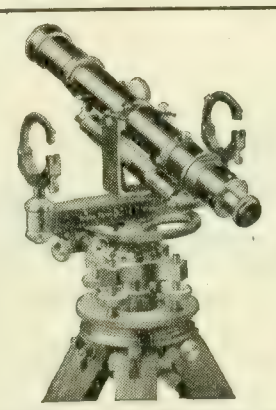
Storage Building, Factory Building No. 1, Factory Building No. 2 and Machine Shop, Maurer, N. J. Architects, Lockwood Greene Co.., 101 Park avenue, New York City. Owners, Barber Asphalt Paving Co., Land Title Building, Philadelphia. Reinforced concrete, 2 stories, 120x180 feet, 1 story, 40x175 feet, 1 story, 40x75 feet, and 1 story irregular size, reinforced roof, concrete floors, waterproofing, iron work, fire doors, rolled steel sash and skylights, stone foundations (heating and electric lighting reserved). Architects taking bids, due December 29th. Warren-Moore Co., Colonial Trust Building, Philadelphia, are figuring.

Bakery (add.), 514 Berkley street, Camden, N. J. Architect, private plans. Owner, Freihofer Baking Co., Twentieth and Indiana avenue, Camden, N. J. Steel frame, 3 stories, 57x20 feet 3 inches, slate roof, wood floors, galvanized iron work. Contract awarded to Mockett Const. Co., Sixth and Market streets, Camden, N. J.

Store and Residence (alts. and add.), State street, Trenton, N. J. Architect, J. O. Hunt, 114 North Montgomery avenue, Trenton, N. J. Owner, J. S. Vaughan, State street, Trenton, N. J. Brick, limestone, 3 stories, stone foundations, slate roof, tile work, plate glass. Contract awarded to Fred Parker, 327 Calhoun street, Trenton, N. J.

Miscellaneous Construction News

School House, No. 76, Latrobe Park, Baltimore, Md. Architect, Otto G. Simonson, Maryland Casualty Tower Building, Baltimore, Md. Owners, Mayor and City Council of Batlimore, Baltimore, Md. Brick, terra cotta and steel, 3 stories, 271x76 feet and



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241x50 feet, slag roof, maple floors, metal lath, metal ceilings, dampproofing, iron work, hollow metal sash, electric lighting, steam heating, stone foundations. Bond. Lowest bid submitted by Standard Const. Co., 1713 Sansom street, Philadelphia, $445,000.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 14, 1920. Sealed proposals will be opened in this office at 3 P. M., January 6, 1921, for furnishing the labor and certain materials required in the construction (except mechanical equipment) with certain materials that will be furnished by the Government, of a frame laundry building for the United States Marine Hospital at New York, N. Y. (Stapleton). Drawings and specifications may be obtained from the Supervising Chief Engineer, Room 731, United States Custom House, New York, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

AS THE EDITOR SEES IT

(Continued from Page 1020.)

famous old state house of Boston, Faneuil Hall. And don't overlook the tiny home of William Penn, or the many small brick inns of the Jersey and Pennsylvania early settlements; not to speak of the many charming old brick houses of Virginia.

Considering that the vast majority of buildings erected in America were built of wood, and that most of the older buildings were constructed of massive timbers from hard and now almost priceless varieties of lumber, such as walnut, etc.;—in spite of this, what proportion of those innumerable wooden buildings are now left as relics of the early, bygone days?

Now and then a wooden building of historic interest stands apparently defying time, but like Mount Vernon, which is being cared for as a greatly loved heritage, there is constant tinkering and replacing.

Yet Europe, in spite of devasting wars which have swept over it every hundred years or so, can show examples by the hundred thousand of ancient solid brick buildings still fulfilling the functions for which they were designed; so many examples that the photographs of all of them would fill a great library. Every class of building is represented, from the cottage of the poorest to the castles of the rich.

Consider how microscopical is the rate of depreciation on these buildings, and remember that their brick walls have required no expense for upkeep. Compare them with a typical frame building, which is a liabilty from the moment it is finished. As soon as the carpenters have driven the last nail the buliding begins to decay—a process retarded with difficulty and at great expense by painting the surface every few years. In a short time this wipes out the slight difference in first cost between brick and frame.

The slogan "Save the surface and you save all," advertised extensively to sell very excellent but expensive paint for frame buildings, does not interest the builder in solid brick. He doesn't have to spend a cent in order to "save the surface." He got an everlasting surface when he bought his brick.

Lumber has advanced so much in cost that at Chicago prices at the time of writing, 100 square feet of 8 inch solid brick exterior wall laid in lime mortar, furred and plastered inside, costs less than 100 square feet of exterior stud wall, covered with siding and plas-

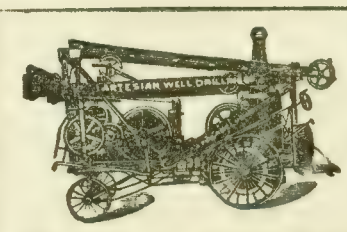
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tered inside. Solid brick may soon be lower in first cost than frame in any part of the country.

As the years pass, solid brick does not get that ancient, weatherbeaten look that your old frame houses cannot help acquiring, no matter how often you paint them. Age has a gnawing tooth for frame, but bites at solid brick vainly.

Statistics show that a brick house has about three times the life of a frame house. That is why the subject of depreciation is such a serious one for the building owner. We quote the opinion of one of America's foremost appraisal engineers—John J. Thomas, of the Lloyd-Thomas Company, Chicago. Mr. Thomas, secretary of the company, said in a speech at Cleveland that the building committee of the Chicago City Council, when considering the extension of the fire limits of Chicago, called in well-known architects, prominent insurance men, the Chief of the fire prevention bureau and appraisal engineers to give their opinions.

Mr. Thomas said, "These experts proved that the time had passed when tinder-box frame construction had even the paltry merit of being cheap. Its first cost is slightly—very slightly—less than that of solid brick, but its depreciation is so rapid and its cost of maintenance so great that even without a fire the frame structure 'would eat its head off' in a comparatively few years, while a solid brick building lasts, with a minimum of repairs, year after year.

"In appearing before the committee we showed what this factor of depreciation had done to different types of construction of every building in a city of 100,000 inhabitants, which we have recently appraised.

"In the better residence district the average depreciation of brick dwellings was less than 5 per cent. The average age was approximately nine years.

"In this connection underwriters and engineers agree that a well constructed solid brick building does not depreciate in the first five years after it is built.

"The average age of the better class frame residences was approximately fifteen years. We found an average depreciation of 30 per cent.

"Constrasting the two types of construction on a basis of equal periods of time, we found that frame buildings had lessened in value three times more than brick buildings. Remember that depreciation is a permanent exhaustion of values that is taking place in property, and not a market decline. The actual depreciation showed this startling fact; Frame property costing new a million dollars, at the end of 15 years had a sound depreciated value of only $700,000.

"If this same million dollars had been invested in brick construction, at the end of 15 years it would have a sound value of $900,000.

"This means a direct loss of $200,000 to the property owners whose money was invested in frame. Remember that this loss does not include the additional increased expense of insurance, upkeep, etc. This loss is due solely to difference in depreciation, *a force over which no human has control. The actual depreciation of brick buildings showed that they had a serviceable life of* 80 *to* 100 *years, while that of frame was* 30 *to* 40 *years.*

"Considering the fire risk phase," Mr. Thomas continued, "It is a well known fact that the fire loss ratios in European countries are much less than here. The main reason is that there is practically no frame construction to be found in any of those countries.

"Insurance companies do not care whether your property is brick or frame; they are selling insurance on all kinds of property to make money. The rates on frame construction range from 2 to 3 times greater than that charged for solid brick.

"For more than one hundred years they have carefully compiled statistics. From these statistcs they say that your chance of a bad fire is from two or three times as much if you use all frame construction than if you use solid brick."

Salvage

In the matter of salvage, every test is in favor of the better materials. The losses in solid brick are generally confined to the building in which the fire occurred. On the contrary fires in frame buildings frequently destroy not only the building in which the fire started, but adjacent buildings as well.

Mr. Thomas told of an actual salvage test made by the burning of two cottages —one of frame and the other of solid brick—in Grant Park, Chicago. Twenty thousand people witnessed the test.

The cost of the frame house was $529.00. The cost of the solid brick house was $640.05 or only 1.6 per cent. more than the frame. The insurance rate on the solid brick house was 20c per M., and on the frame house 50c per M., or 150 per cent. more than on the brick.

"After the fire," said Mr. Thomas, "we appraised the salvage and loss. The solid brick cottage was structurally intact. The doors and window frames were charred and required replacing. The partitions and trimmings were burned, but the essential features of the cottage were as good as ever. We estimated the salvage at 80 per cent. and the loss to be $128.00.

"We found the frame structure was a wreck for all habitable purposes, about the only salvage being the brick chimney.

"A solid brick house is more comfortable, easier to warm in winter and cooler in summer.

"It saves fuel and again saves money.

"It is safer from conflagration—safer from windstorms.

"The real reason for the use of frame in the early days was its abundance, convenience and its cheapness; the real reason for its use today is the well known force of habit. There is no other reason. This is the age of solid brick.

"Data shows that solid brick saves money—that upkeep and insurance costs are less—that a solid brick building not only lasts a man's life time, but will be a good home for his children and his grandchildren instead of becoming worthless in his own life time—that the property can be kept more sanitary and healthful—that a brick house gives him more standing in his community and better credit at the bank.

"It is undoubtedly true that if the facts and statistics were properly marshalled and presented in any community that the erection of frame property would be practically abandoned not from compulsion but from choice."

Thus Mr. Thomas summed up his argument for solid brick.

After exhaustive investigations, insurance experts, Chambers of Commerce, and the United States Geological Survey have come to the conclusion that no other building material ever discovered even approaches solid brick for fireproof qualities. The following expressions of opinion are picked at random from among thousands that are available.

Some years ago, President Snow, of the Home Insurance Co., of New York, issued a pamphlet in which, waiving such considerations as comfort, beauty, convenience, suitableness, strength and adaptability of good construction, he struck home to the *cost* of brick in contrast with the cost of frame.

President Snow asks, "What is true economy in house building? Poor materials are not only inferior but actually in the end more expensive from every point of view.

"By detailed comparative figures which take into consideration the original investment, upkeep, painting, cost of heating, depreciation, and the cost of insurance, it is shown that the use of frame construction is actually in the end more expensive than brick construction.

"From every quarter recitals reach us of men and women, either roasted alive in flimsly built hotels, theatres, stores and factories or crushed to the ground below after jumping from upper windows to escape a worse death—to say nothing of the suffering of horses, cattle and other dumb creatures destroyed by thousands of these fire traps."

One of the most authoritative and re-

cent books on fire insurance "Fire Prevention and Protection," by A. C. Hutson, C. E., says "Brickwork of properly burned brick, properly laid up in strong mortar, with good solid well filled joints constitutes a form of construction which in point of efficiency cannot be excelled as a fire resistive material."

Fire Chiefs and Fire Marshalls of every city and state in the country are urging a standard of safer building. Chief Croker, once famous head of the New York Fire Department, speaking before the Legislative Committee of New York said, "The construction of frame buildings should be absolutely prohibited, as the records show throughout the country that all of our large conflagrations have been caused by frame construction, shingle roofs, etc. Not only New York City, but the United States also, is backward in its building construction. Frame should be eliminated absolutely."

The cost of heating the house is a question which interests every man of moderate means. Referring to the relative cost of heating a frame house versus a brick house, Mr. John D. Small, one of the leading engineers of Chicago, says that *estimating very conservatively a frame house will consume at least* 15 *per cent. more coal than a solid brick house of the same size and will require a larger heating plant.*

That is to say, for every seven tons of coal needed to heat a solid brick house, the same house in frame would need more than eight tons. This added expense continually increases year by year, as the wood shrinks and makes the house more draughty. The man who builds of frame therefore has to waste money in his furnace every winter to pay for the doubtful privilege of owning a frame house. This needless yearly fuel expense must be added to the high cost of painting a frame house every two or three years, to the increased cost of insurance of frame over solid brick, and to the costly and rapid deterioration of frame. The actual yearly cost of a frame house in dollars and cents makes the very slightly increased first cost of solid brick over frame insignificant. "The recollection of quality remains long after the first cost is forgotten." When you build be sure to build an expense-proof solid brick house—a house that will save money every year—that will bring just as much money in the open market five years hence as on the day it was built—frequently more.

A factor which foreshadows the enforced curtailment of the use of lumber for building is its growing scarcity, which is becoming so acute that the Illinois Legislative Investigating Committee sitting in Chicago made an appeal to the President and Congress of the United States for the conservation of the lumber supply.

Quite apart from considerations as to which material gives the best service to the owner, contractors find it to their own interest to use solid brick in preference to any other material.

The contractor is interested primarily in getting the building up and off his hands as quickly as possible, consistent with the time required to make a good job. Common brick is the one material which can almost always be obtained locally without delay and rail transportation expense. Lumber and many other materials have to be brought long distances.

Because of the small size of the units, brick is an extremely flexible material to use. Every brick is the same size and there is no waiting for special sizes for special locations, as with almost any other building material.

Brick can also be stored if necessary in any kind of weather without deterioration. Brick does not check, warp or split and does not spoil when wet.

The best insulation aganist heat, cold and dampness is provided by the wall of solid brick. Everyone knows how cool the inside of a solid brick building is on a hot day. It protects the inside of the house by its mass. In winter it keeps out cold just as efficiently as it keeps out heat in summer.

The solid brick wall is always dry. It it proof against dampness coming from outside, and condensation from within.

If an addition is to be made, a new wall can easily be joined to an old one at any point.

New openings can easily and quickly be made, and every brick taken out can be used over again, no matter how long the wall has been standing. And the enormous strength of the solid wall makes the safe cutting of even wide openings perfectly feasible under most conditions. Cutting new openings throws more load on the parts of the wall that are left. The solid wall has great reserve strength to carry these extra loads.

Because of the small size of the brick units, openings can be cut to the exact dimensions desired.

In many places, such as garages and factories, the interior walls have to resist impact and blows which might easily, and frequently do, break to pieces weaker walls of thin material. Solid brick stands up and takes heavy punishment without material damage, because the blows are resisted by the inertia of a compact bonded mass, rather than the breaking strength of a thin brittle substance.

Again, someone may want to drive a nail in the wall. If the material employed for backing and interior masonry is thin and brittle and a nail is driven at random through the plaster, one whole large section may be shattered, ruining the wall and the plaster. Common brick, being a solid mass, cannot be damaged this way.

Solid brick makes a very strong wall to which to fasten wood guards, shafting, plumbing work, wall radiators, etc. It can be plugged without damage and develops great resistance to direct pull, owing to the fact that brick is laid in small units; making a solid, thoroughly bonded construction.

One of the most important functions of a wall is to support the floors and the roof. A solid brick wall forms a splendid solid bearing surface. Being built of small bonded units, the load is quickly transmitted over a large area of the wall.

In case of fire, partitions or backing containing large air spaces generally crack and splinter on the side next to the fire and become a total loss. Brick, being solid, successfully resists the action of fire and a solid brick wall does not have to be rebuilt when the building is restored unless it has been thrown down or damaged by mechanical forces, such as falling beams, etc. That is why fire insurance companies class inferior masonry construction as little better than lumber.

Be sure, therefore, that all the bearing members in your building rest upon solid, really fire-proof brick. Run the solid brick right up to the roof.

Don't put wood posts in the basement. Basement floors are generally damp and in time the bottom of the posts will rot away. Wood posts are not fire-proof. Brick is not affected by dampness, never shrinks, and never rots.

Records show that many fires start in the basement; therefore make every partition in the basement a solid fire-proof brick partition. An all-brick basement helps sell the house.

In some localities, where common brick is of a very hard quality, it may be used for the basement floor. Such a pavement adds greatly to the appearance of any basement. We do not, however, unreservedly recommend common brick for paving. In some localities the clay does not make common brick suitable for this purpose. Ask the brick manufacturer in your district whether his brick will give

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good service when used for basement paving.

Vines

Beautiful effects may be produced by training vines on the walls of a brick house, effects, by the way, denied to the owner of a frame house. Vines on a wood house cause it to decay very quickly, and must be torn down frequently for painting.

Many are the decoration possibilities of common brick when used for garden walks. These bricks are laid flat on a bed of sand, with sand joints, and a brick border. Many people like to have grass and moss grow up in the joints between the brick. If this is not desired sprinkle some salt occasionally over the walk.

We make the same reservation on the suitability of brick for garden walks as for basement paving.

The kitchen wall always has a great deal of hard wear, and should have a surface that cannot be disfigured. The walls of kitchens in houses of the better classes are sometimes laid with common brick exposed up to the height of the doors. A projecting course of brick, or a small wood mould, is run around at this height, the wall above being plastered.

This treatment is a little more expensive than a plastered wall, but looks much neater. It has a surface that stains, grease, or smoke will not disfigure.

If this treatment of the kitchen is adopted, and the exterior walls of the house are 8 inch brick, it is advisable to lay the exposed brick in the kitchen as a 4 inch veneer with about 1 inch air space between the back of the veneer and the 8 inch wall. If the other walls of the kitchen are 8 inch brick bearing partitions, lay the exposed face toward the kitchen in selected brick. If they are not bearing partitions, build them of 4 inch brick.

This treatment involves the construction of a small room in the basement with brick partitions the same size as the kitchen above. This room can be used as a cool storage room for vetegables, or for many other purposes. Even if the kitchen walls be plastered always allow the brick behind the range to "show."

If you build a house to sell, be prepared to tell your purchaser that you have a brick—a *solid* brick house. Tell him that every joist and every roof timber rests upon solid fire-proof masonry—*really solid* and not hollow and brittle. Take him down to the basement, and after telling him that insurance statistics show that one-third of the number of fires start in basements, point out that here is a brick basement without a wood post in it, with every partition built of solid brick. Tell him too, that every winter he will save 15 per cent. of the coal bills he would have to pay in a frame house; that he will save from one-half to two-thirds of his fire insurance premiums; that his house will be warmer in winter and cooler in summer; that he will never have the heavy expense of painting the outside walls; that there are no hollow spaces in the walls to harbor vermin. Tell him that here is a house that he will always be proud to show his friends, that will give him more standing in the commnuity and more credit at the bank. Besides, a house where his wife and family can sleep with little fear of being burned in their beds.

Tell him, too, that though he is buying a house for a home, circumstances may arise that will force him to sell. A well-built solid brick house does not deteriorate during the first five years after it is built, and is good for twice or three times the life of a frame house. A man selling a brick house therefore can recover practically all the money he put into his house, and if the land has increased in value, this increase will represent almost clear profit to him. A man who sells a frame house has to stand a considerable loss in the reduced value of the house itself. This loss in value will reduce and may entirely offset any increase in the value of the land. Buying a solid brick house is better than putting money in the bank for it can be used while it is increasing in value.

If your house is built of solid brick, it will stand far out above the ordinary frame house as a desirable investment, and the profit in dollars and cents on the sale will show a much higher percentage on the cost of building than if you put up a frame or an inferior masonry house.

The loaning value of a solid brick house is also much greater than that of a frame building, owing to the slower depreciation.

The owner of a solid brick house can get a much larger loan on it than he can on a frame building costing the same amount, which shows the opinion of bankers on the matter of depreciation.

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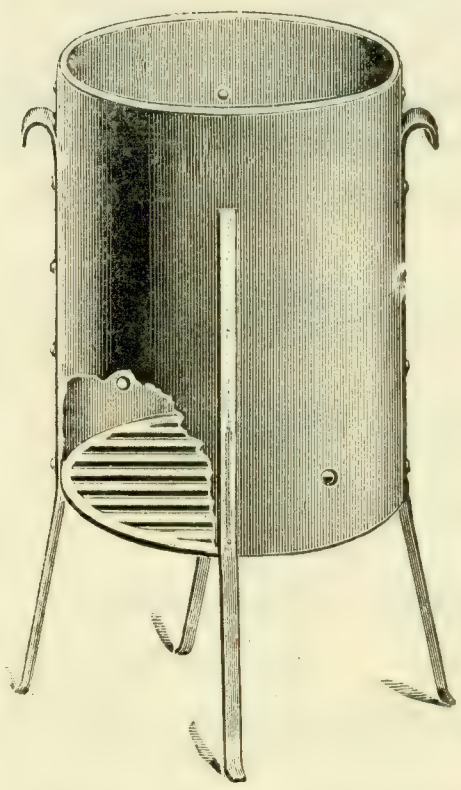
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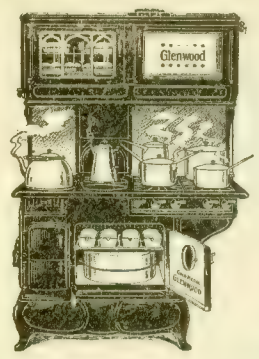
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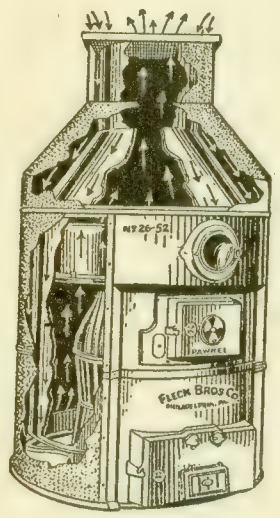


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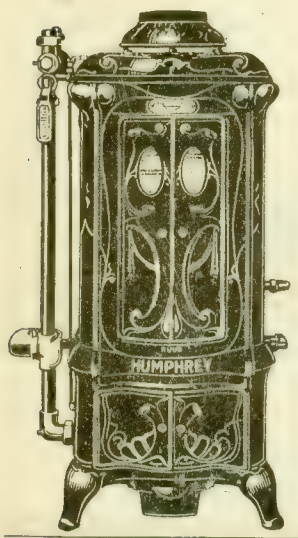
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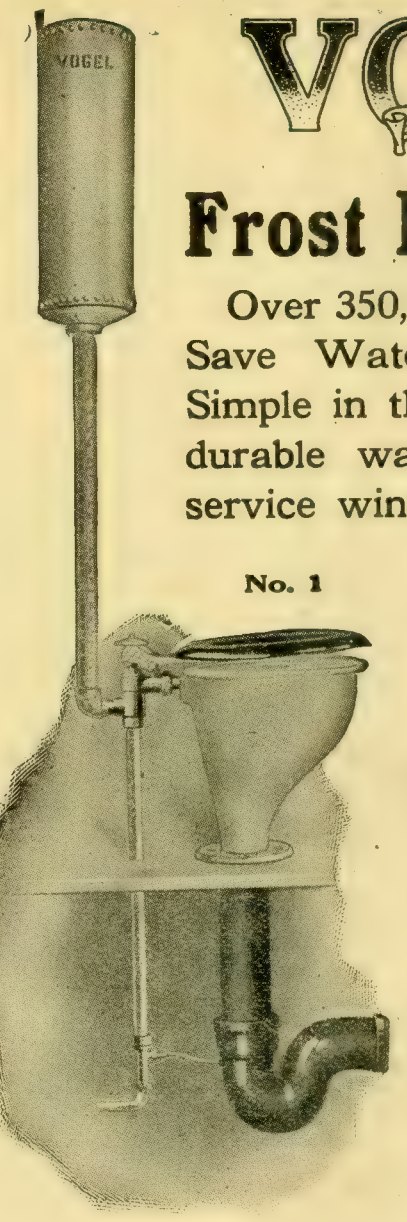
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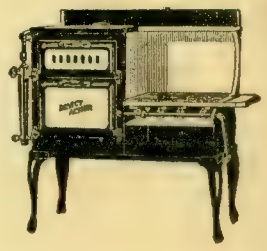
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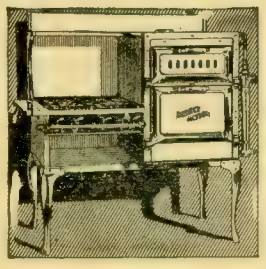


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December 29, 1920

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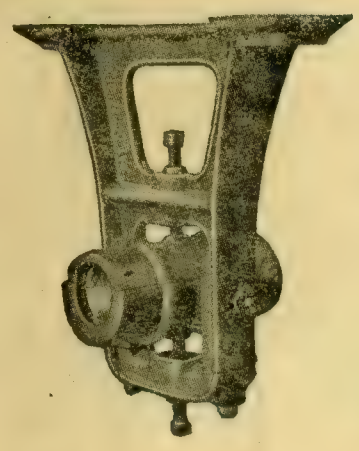
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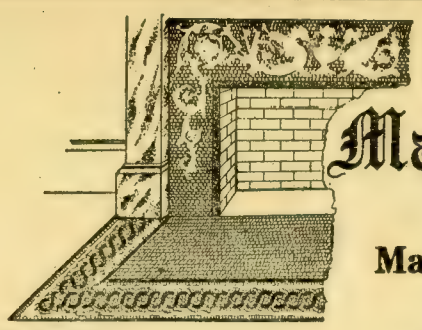
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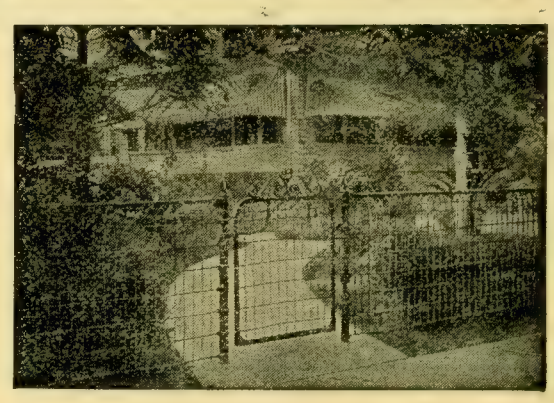
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VOLUME XXXV
Number 52

PHILADELPHIA
December 29, 1920

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As The Editor Sees It

THE construction industry is greatly interested in the recent great drop in lumber prices. This factor will play a large part in any reduction in building prices. Some authorities, however, have ventured the opinion that the drop, at best, is only temporary, and that, as soon as building activity increases in the spring, and there is congestion in transportation, lumber prices will rebound.

However, lumbermen are apparently quite equal to solving the transportation question satisfactorily, and we read in the "New York Lumber Trade Journal" that:

A recent circular or trade letter of the West Coast Lumbermen's Association, headquarters, Seattle, has a large bearing upon the matter of water shipments at the present time. And as a corollary thereto, issued at about the same time, was a trade circular of the Pacific Coast Shippers' Association. The first named said:

Aside from the tendency of mills to close on account of restricted markets, the outstanding trade feature of Pacific Northwest lumber is the increase in shipments by water to Atlantic Coast ports. Since the increase in transcontinental rail freight rates, Oregon and Washington mills have shipped 45,434,268 feet of lumber through the Panama Canal to Baltimore, Philadelphia, New York and Boston. In three months, since the increased freight rates became effective, this water movement has approximately equaled the Pacific-Atlantic Coast lumber shipments for the entire year of 1919. While the water movement is relatively unimportant compared with the immense production of Oregon and Washington mills, it is significant in connection with the present lack of lumber-handling facilities on the Atlantic Coast; and the potential movement of lumber by water to Eastern markets when Atlantic Coast lumber storage and distributing facilities are increased, as now contemplated.

All of which is as interesting as it is authoritative. And the allusion to a present lack of adequate facilities for lumber handling by water at Atlantic Coast points; and the potential and prospective increase thereof in due time at an early date and particularly of interest recently.

It would appear fairly obvious perhaps that this increase immediately and at least partly grows out of the recent advance of railroad rates to the eastward and thus it brings up the whole matter of routes and rates, and though the activities by the waterway are at this time probably somewhat dependent on the advance, the movement thus was ultimately no doubt inevitable as facilitating in due course movements in bulk or large volume to the Eastern seaboard. The means by which it presently brought to a greater momentum are merely factitious and therefore the activity for many reasons, as indicated, promises to be not impermanent. Indeed, steps by many in interest and in various ways are being taken now to the end of permanency.

All of which by no means implies that the rail routes are able to fall into destitude. On the contrary (and this matter will be adverted to farther along) steps are even now being taken to iron out in as full and practicable measure as possible, and as speedily, the complications of lumber shipments due to the rail advance and with every prospect of some success under the impetus and pressure of necessity; only the matter in the value of things, will take some months' time at the least, in all probability.

The whole, and especially the rapid coming to the fore of water shipments, to the Atlantic Coast, merely illustrates the rapidity with which Pacific Coast Products long known on this side of the continent, are increasing in use by leaps and bounds and for obvious reasons. The greater use of the water routes in such an event appears logical and obvious.

As a matter of fact the genesis of this movement was not only not unlooked for but expected by some experts in the line of Pacific Coast production and actual steps taken in preparation to take care of it. This is instanced in the case of a man directly

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interested who for the purposes of looking out the best locations for the receipt of water shipments at the port of New York, for example, made airplane trips over the Metropolitan District, by which means he got a good close-up and general layout of the topography which he could thus work from in detail. It doubtless gave him details, in fact, which could be afforded as well by no other process, and in the briefest possible space of time; and while such an aerial survey would not give any definite sort of idea as to depth of water and correlated matters in all cases, such could be worked out later. The main point is that the water movement was anticipated, although no immediate activities were put into effect previous thereto in response to any preconceived ideas on the point, so far as we know, but purely and naturally evolutionary. In other words, the accession of water shipments was a natural unforced growth, without any special planning just at the time to bring it about, although anticipated and steps taken to take care of it, and further steps also are being taken to handle it in a scientific manner, thus constituting an interesting and wholesome new development in lumbering annals. It will all certainly tend to make in a scientific way for success in the long run in the distribution by water to the Atlantic Coast ports of Pacific Coast products.

At the same time the Pacific Coast Shippers' Association advised that the subject of water transportation was not only receiving the attention of the lumbermen in all the Pacific Coast cities, but that it would be only a question of a short time until the steamship lines were in position to offer a workable rate to the East Coast on Fir lumber, with details given in full to that end. While someone might call this propaganda, it certainly is propaganda of a very definite sort when at the same time still further details were outlined and the statement definitely made that he operation of a fleet of barges would start "in the neighborhood of January 1," with the added indication that their intentions and plans compassed the maintenance of an Eastern office for "the rebilling of these consignments upon arrivals at New York and other ports at destination," which was characterized as one of the features of water transportation that had caused considerable difficulty and questions as to feasibility of plan. They will, they state, be in position to furnish backhand rates from Atlantic Seaboard ports within a short time and it is the announced intention "to incorporate such information in the Lumbermen's Freight Rate Guide when re-issuing the Eastern States."

Another angle of the matter was the receipt by the Chamber of Commerce of Seattle, widely quoted in Coast papers, of recent date (one of them displaying it conspicuously in a box on its front page), of a request by the White Pine Association of Tonawanda for information on steamship companies "which might be interested in handling cargo lumber and shingles from Pacific Coast points via the Panama Canal to New York harbor and thence inland by barge up the Erie Canal to North Tonawanda."

"This business," says the communication from Henry Adamy, secretary, "started just before the war but was soon halted."

Comment from Buffalo parties on the Coast at the time might seem to indicate that this might be some special phase of the matter, although not positive at that time and distance away, but pointing out the fact that the Tonawanda and Buffalo wholesalers in the large would have no incentive to ship around by Canal and through the Erie Canal when those very stocks would in due course and by far the larger part have to go forward again to customers East of Buffalo and Tonawanda with their uneconomical and entirely unnecessary double haul there and back between the seaboard and the foot of water navigation. It all only goes to show, however, how widespread interest there is in the matter.

Meantime, the discussion of the water route as above would not be complete without the statement that things are already doing in process or straightening the tangle caused by the eastward and transcontinental advances in rail rates. This may and probably will, according to indications, take still some months for a successful settlement. At the same time there are few if any who do not hope and look for some sort of a fairly successful solution all around and many compelling reasons could be cited to that end.

On the other hand, again, some sort of a happy solution for the lumbermen (and ultimately the lumber buying public, be it remembered, for they pay in the end the freight bill) may possibly be arrived at earlier than a lot of us really can expect. Quoting against the Pacific Coast Shippers' Association, they recently said:

"We have received rumors and partial authentic advices from Chicago that the carriers are now considering a 95c. rate on lumber to New York, Boston, and other Atlantic Coast points, 90c. to Buffalo and a graduated lower rate to points between Buffalo and Chicago. It is contemplated to make this

(Continued on Page 1044.)

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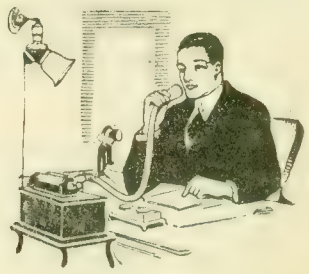
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Residence (alts. and add.), Sixty-fourth and Overbrook avenue, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Percival Johnson, on ,premises. Carpentry, mill work, cement work, general alterations. Revised plans in progress.

Work Shop, Friendship street, West of Hegerman street, Philadelphia, $4,500. Architect, private plans. Owner, Charles H. Madison, on premises. Brick, 2 stories, 32x60 feet, slag roof, cement floors. Owner will build.

Store and Offices, South side of Market, between Seventeenth and Eighteenth streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. New marble and stone front, hot water heating, electric light, flush bulks, general alterations. Plans in progress.

Library Foundations, Nineteenth to Twentieth streets, Parkway, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Free Library of Philadelphia, care of Librarian John Ashhurst, Thirteenth and Locust streets, and Frank Caven, Director of Department of Public Works, lity Hall, Philadelphia. Concrete, 313x212 feet, waterproofing. Bond. Lowest bidders: Standard Const. Co., 1713 Sansom street, $268,750; Edw. Fay & Son, 2 South Mole street, $296,484; Ketcham & McQuade, 1029 Brown street, $301,107.

Warehouse, Southwest Corner Twelfth and Spring Garden streets, Philadelphia, $15,000. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owner, A. Smelding, 1204 Spring Garden street, Philadelphia. Brick and steel, 2 stories, 40x40 feet and 100x60 feet, slag roof, concrete floors, rolled steel sash, waterproofing. Owner will build.

Office (alts.), Southeast Corner Germantown and Sedgley avenues, Philadelphia, $3,000. Architect, private plans. Owners, Air Reduction Co., on premises. Carpentry, mill work, painting, glazing. Owners will build.

Store (alts.), 244 North Broad street, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners (lessees), United Cigar Stores Co., 5 South Tenth street, Philadelphia. Carpentry, mill work, general alterations. Plans completed. Owners will take bids shortly.

Residences (alts. and add.), 3425-27 Walnut street, Philadelhpia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Philadelphia Branch, United Synagogue of America, care of architects. Brick and stucco, 1 story, 16x26 feet, asbestos shingle roof, pine floors, stone foundations, electric lighting, tile work, iron work, fire escapes. Bond. Architect taking bids due January 12th. Lam Building Co., 1001 Wood street; E. E. Hollenback, Inc., 1804 Brandywine street; Thomas C. Trafford, 1613 Sansom street; Golove & Lewis, Real Estate Trust Building; George H. Uhlers' Sons, 1841 South Broad street; Potts Bros. & Cooperson, 129 North Eleventh street; Ketcham & McQuade, 1029 Brown street, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Garage, Fifty-eighth and Woodland avenue, Philadelphia. Architects, Ballinger & Co., 329 South Broad street, Philadelphia. Owner, J. Gibson McIlvain, on premises. Brick and steel, 1 story, 122x30 feet, slag roof, cement floors, metal weather strips, iron stairs, ornamental iron work (heating and electric work reserved), stone foundations. Bond. Fire insurance. Architects taking bids due December 31st. Robbins Cont. Co., 1137 North Front street; H. E. Baton, 1713 Sansom street; R. C. Ballinger & Co., 218 North Thirteenth street; Ketcham & McQuade, 1029 Brown street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Monaghan & Losse, Inc., 3016 Chestnut street; Robert E. Lamb Co., 843 North Nineteenth street; F. L. Hoover & Son, 1023 Cherry street, Philadelphia, and J. Howard Roberts, Lansdowne, Pa.; H. John Homan, 34 South Seventeenth street, and F. M. Harris & Co., 1510 Parrish street, are figuring.

Store Buildings (alts. and add.), northeast and northwest corners of Sixtieth and Market streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Stores Co., 5 S. Tenth street, Philadelphia. Owners taking bids. Wm. R. Dougherty, 1610 Sansom street, additional bidder.

Store Building (add.), 3945 Germantown avenue, Philadelphia, $2,500. Architect, private plans. Owner, Fred Ffund, on premises. Brick, third story addition, 20x38 feet, slag roof. Owner will build.

Church, Ruscomb street, between Thirteenth and Camac streets, Philadelphia. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Logan Baptist Church, Broad and Rockland streets, Philadelphia. Stone and brick. New plans in progress.

Bank Building (alts. and add.), 610 South Second street, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Southwark National Bank, care of W. W. Foulkrod, president, on premises. Architect taking bids, due January 5th at 10 A. M. H. E. Baton, 1713 Sansom street; Frank G. Stewart, 1619 Sansom street; F. T. Mercer Co., 1706 Delancey street; Hughes-Foulkrod Co., Commonwealth Building; J. Sims Wilson Co., 1125 Brown street, and Wm. R. Dougherty, 1610 Sansom street, are figuring.

Garage and Wagon Storage, Reed and Percy streets, Philadelphia. Architect, Amos W. Barnes, 10 South Eighteenth street, Philadelphia. Owners, General Baking Co., Tenth and Reed streets, Philadelphia. Brick and steel, 1 story, 104x80 feet, slag roof, cement floors, stone foundations, rolled steel sash. Architect taking revised bids, due December 30th. Smith-Hardican Co., 1606 Cherry street; Potts Bros. & Cooperson, 129 North Eleventh street, and F. A. Havens Co., 845 North Nineteenth street, are figuring.

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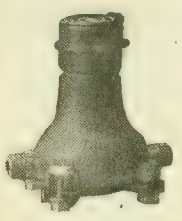
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Nurses' Home, rear of present building, Broad and Mifflin streets, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Agnes' Hospital, Broad and Mifflin streets, Philadelphia. Brownstone, 4 stories, 84x161 feet, tile and Barrett roof, cement and composition floors, metal lath, waterproofing, dampproofing, iron work, rolled steel sash, stone foundations, tile work (plumbing, elevators, heating and electric lighting reserved). Contract awarded to M. Melody & Son, 1322 Race street, Philadelphia.

Residence, Erdrick street, South of Van Kirk street, Philadelphia, $4,500. Architect, private plans. Owner, Stella Stokes, 5701 Erdrick street, Philadelphia. Frame, 2 stories, 14x48 feet, slag roof, hot air heating. Contract awarded to William J. Stokes, 5701 Erdrick street, Philadelphia.

Residence, Ardleigh and Durham streets, Philadelphia, $10,000. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Stone, 3 stories, 25x42 feet and 16½x14 feet, slate roof, hot water heating, electric lighting, oak and pine floors. Contract awarded to A. S. Tourison, Jr., 7014 Boyer street, Philadelphia.

Home (fire repairs), 6950 Germantown avenue, $25,000. Architect, private plans. Owners, Lutheran Home, on premises. Carpentry, mill work, slag roof, painting, glazing, plumbing, heating, electric lighting plastering. Contract awarded to A. R. Raff Cont. Co. 1635 Thompson street.

Residences (2), Disston and Walker streets, $4,200 each. Architect, private plans. Owner, T. W. South, City Hall, Room 192. Brick, 2 stories, 16x50 feet, slag roof, hot water heating, electric lighting, pine floors. Contract awarded to J. Edw. Willis, 4412 Wingohocking street.

Shop (fire repairs), Sepviva street, North of Wheatsheaf lane, $25,000. Architect, private plans. Owners, American Eng. Co., on premises. Slag roof, steel work, steel sash, steam heating, electric lighting, cement work. Contract awarded to the Austin Co., Bulletin Building, Philadelphia.

Club Building (alts.), 1411 Arch street, Philadelphia. Architect, Mahlon H. Dickinson, Columbia Building, Tenth and Columbia avenue. Owners, Philopatrian Literary Institute, on premises. Roof repairs, carpentry, millwork, parquetry floors, heating repairs, electric work, marble work, cut stone work. Contract awarded to T. J. & J. R. Whelan, 1011 Chestnut street, Philadelphia.

Apartments (alts.), 4130 Parkside avenue, Philadelphia, $5,000. Architect, private plans. Owner, George B. Clopp, 3717 Filbert street, Philadelphia. Fire repairs, tin roof, carpentry, millwork. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Warehouse (add.), 122-24 Race street, Philadelphia, $4,000. Architect, private plans. Owner, Thomas D. Sullivan, 112 Race street, Philadelphia. Brick, 2 stories, 32x37¾ feet, slag roof. Contract awarded to Wilson Ruff Co., Franklin Bank Building, Philadelphia.

Building, 1522 Walnut street, Philadelphia, $40,300. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Heyman & Bro., Widener Building, Philadelphia. Limestone and brick, 2 stories, 20x140 feet, slag roof, cement and pine floors, metal lath, iron work, rolled steel skylights, tile and marble work, electric lighting, steam heating, stone foundations. Contract awarded to John Schnable, Denckla Building, Philadelphia.

Refinery (add.), Delaware avenue, south of Shackamaxon street, $300,000. Architect, private plans. Owners, Pennsylvania Sugar Co., on premises. Brick and steel, 9 stories, 55x88 feet, slag roof, concrete floors, steel sash, elevators, waterproofing and dampproofing. Contract awarded to O'Meara Const. Co., 253 South Quince street, Philadelphia.

Storage Building (add.), 1909 McKean street, Philadelphia, $7,000. Architect, private plans. Owner, Mary E. Uhler, 1841 South Broad street, Philadelphia. Brick, second story addition, 76x17 feet, slag roof. Contract awarded to Wm. G. Uhler Sons, 1841 South Broad street, Philadelphia.

Building (alts.), 315-17 South Fifteenth street, Philadelphia. Architects and owners, Stewardson & Page, 316 Walnut street, Philadelphia. Carpentry, millwork, plastering, changing present buildings into offices. Contract awarded to Frank E. Wallace, 1220 Chancellor street.

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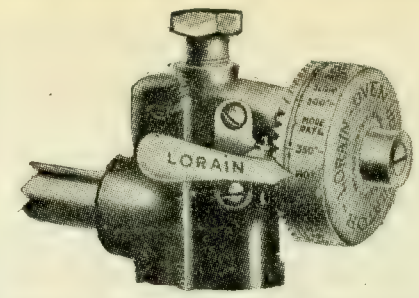


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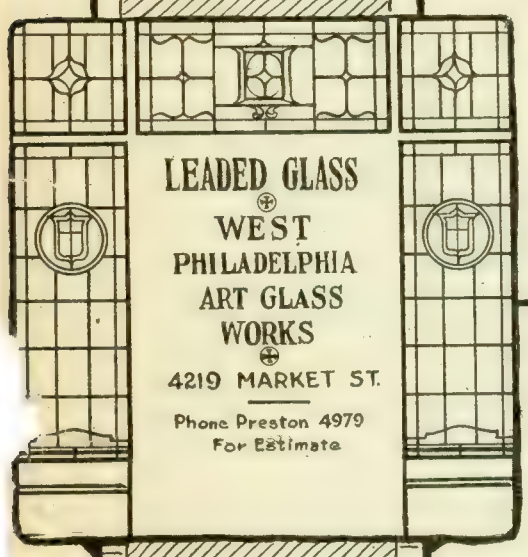
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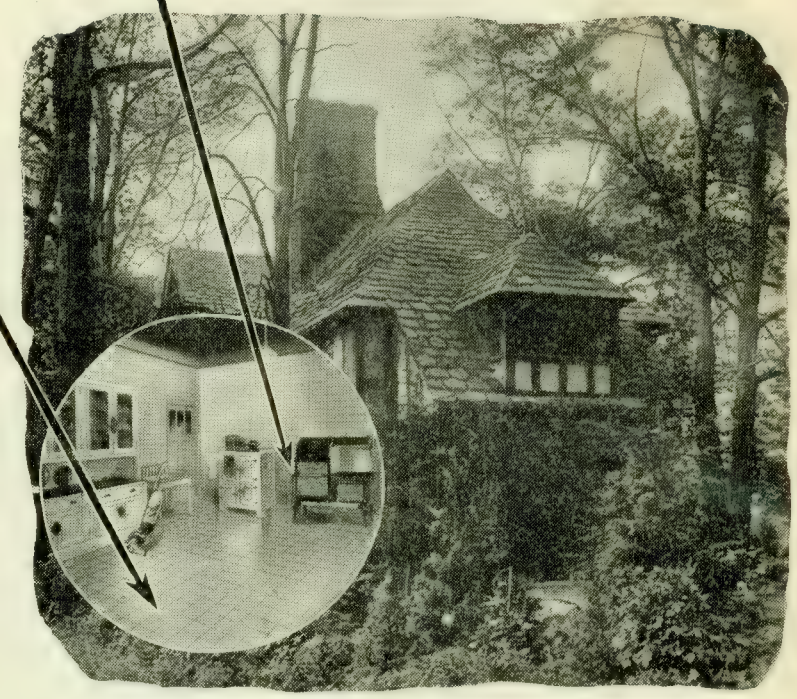
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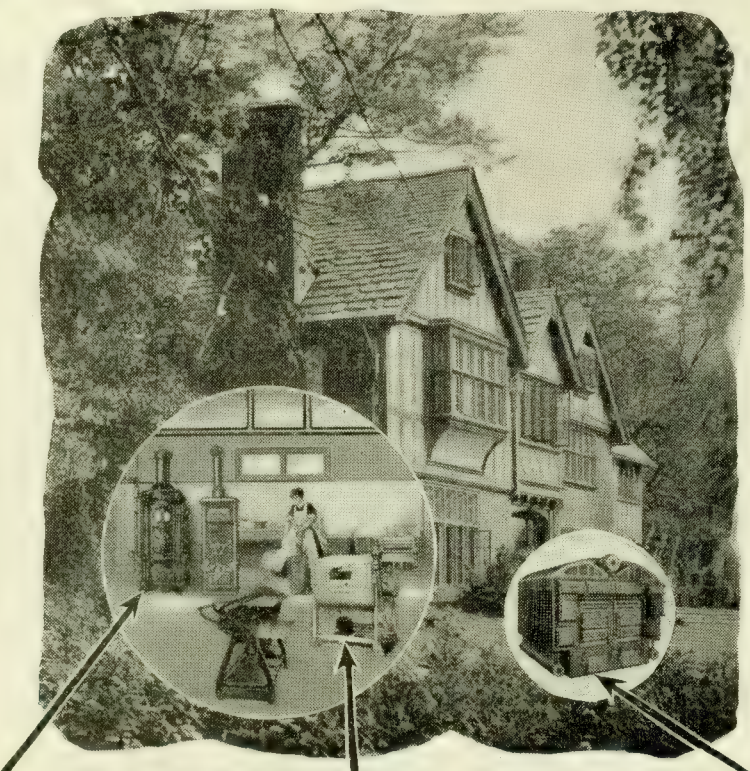
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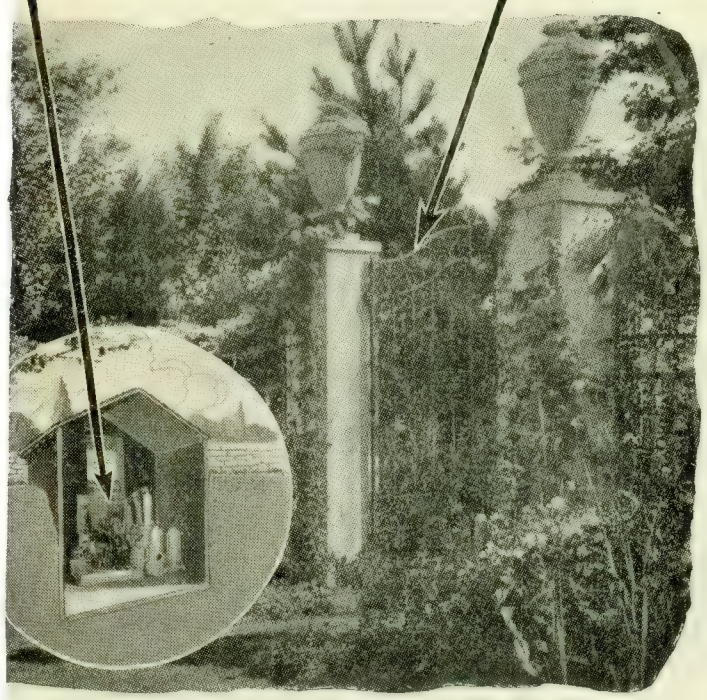
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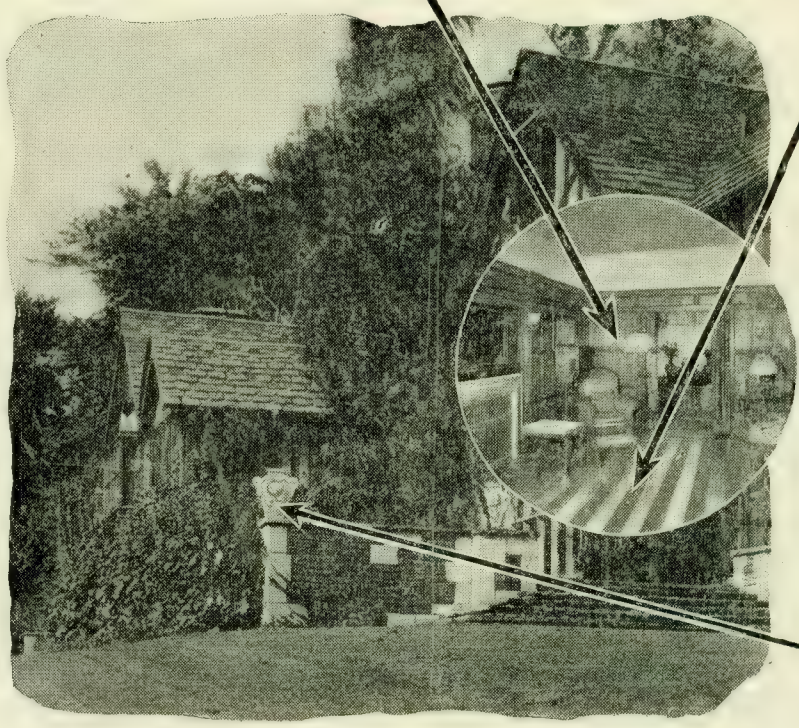
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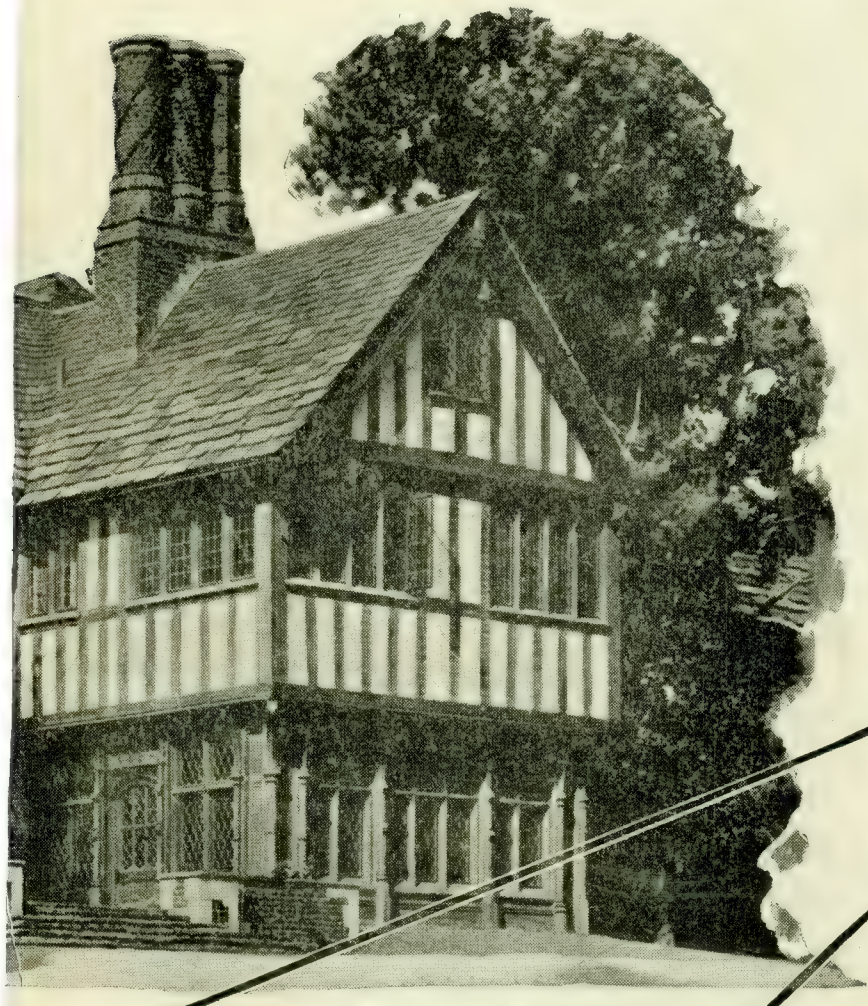
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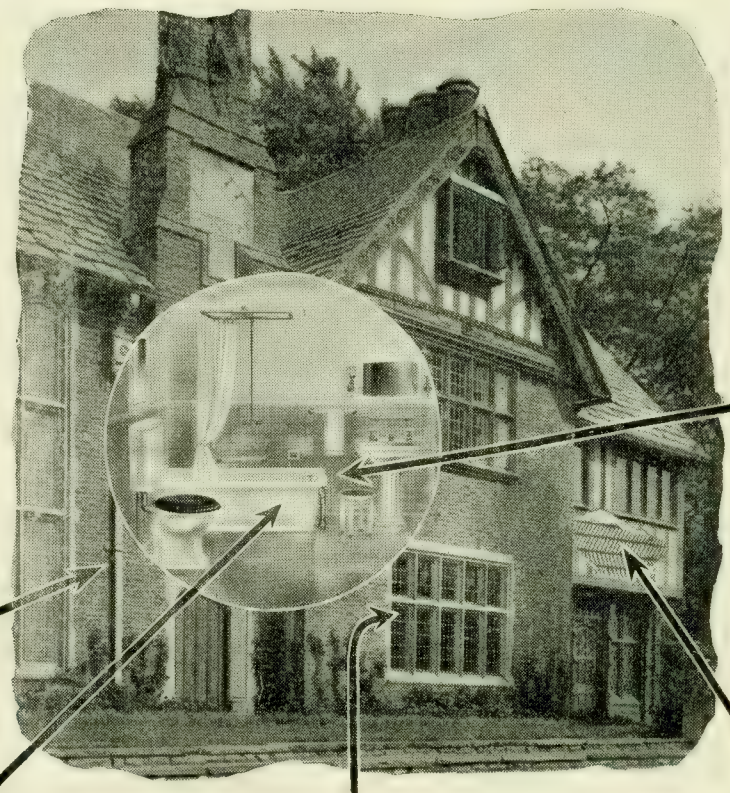




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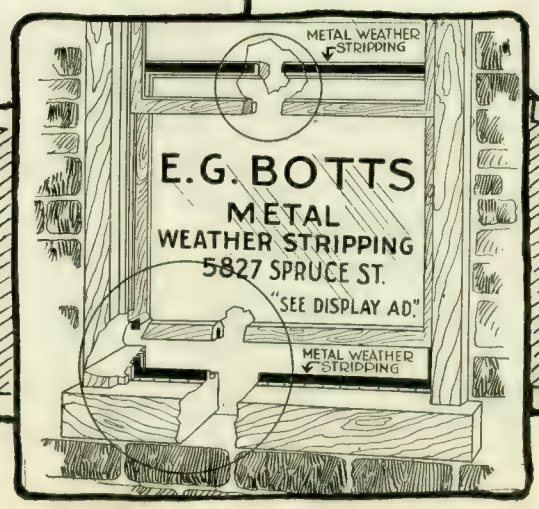






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PENNSYLVANIA Construction News

Memorial Gateway, near Oxford, Chester County, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owners, Lincoln University, Chester County, Pa. Excavation, concrete work, stone work, iron work. Architects taking bids due January 3rd. H. E. Grau Co., 1707 Sansom street; Wills-Ludwick Co., 1706 Sansom street, and James J. Murphy, 3649 Ludlow street, are figuring.

Store and Apartments (alts.), Chambersburg, Pa. Architect, H. G. Kilmer, Chambersburg, Pa. Owners, Cohen Bros., care of architect. New vapor heating system, electric lighting, pine floors, metal ceilings, general remodeling. Plans in progress.

Bank Building, Norwood, Pa. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owners, Interborough Bank, care of James H. Calhoun, chairman Building Committee, Commonwealth Title and Trust Bldg., Twelfth and Chestnut streets, Philadelphia. Brick, stone and terra cotta, 1 story, 40x30 feet, slag roof, pine floors, stone foundations (heating and electric lighting reserved). Owners taking bids, due December 29th. H. E. Grau Co., 1707 Sansom street; Pomeroy Const. Co., 1609 Ranstead street; E. R. Hall, 34 South Seventeenth street, and J. W. Meckert, 5412 Springfield avenue, are figuring.

Bungalow and Garage, Roberts avenue, Glenside, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick and stucco, 1½ stories, and 1 story, slate roof, hardwood floors, hot water heating, electric lighting. Plans in progress.

Montrose Central Office Building, Pittsburgh, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co. of Pennsylvania, Seventeenth and Arch streets. Architect taking bids, due January 3rd. George A. Fuller Co., Pittsburgh, Pa., is figuring (additional bidders).

Residence, Belleville, Pa., $15,000. Architect, Andrew C. Berzner, 717 Walnut street, Philadelphia. Owner, Robert Macloy, Belleville, Pa. Stone and frame, 2½ stories, 40x27 feet. Plans in progress.

Hall Building, Osceola, Pa. Architect, Geo. S. Idell, 1705 Chestnut street, Philadelphia. Owners, Masonic Hall, Osceola, Pa. Brick, 2 stories, 75x75 feet. Plans in progress.

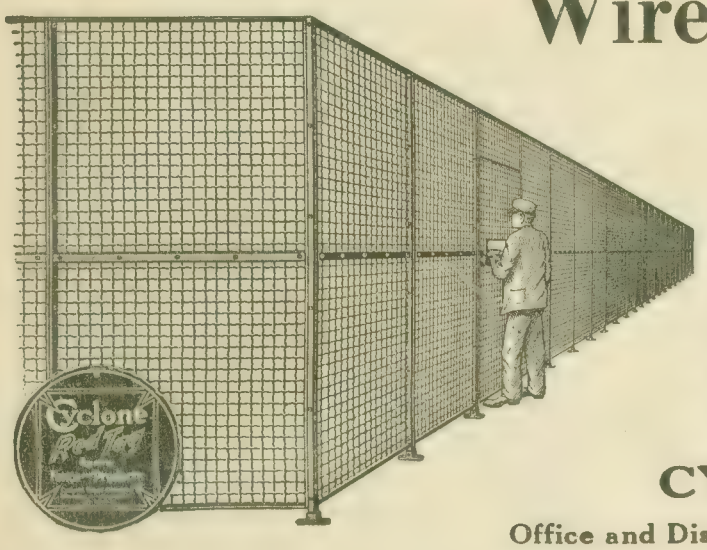
Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

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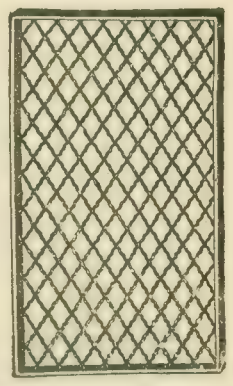


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Pennsylvania Contracts Awarded

Penn Hall School Building, Chambersburg, Pa., -250,000. Architect, H. G. Kilmer, Chambersburg, Pa. Owners, Penn Hall Co., Chambersburg, Pa. Brick, dormitory building, 3 stories, 157x39 feet, (2) wings, 181x37 feet, administration building, 3 stories, 120x50 feet, slate roof, wood floors, service elevators, ornamental iron work, floor hardener, electric lighting, tile porch, steam or vapor heating, stone foundations. Contract awarded to C. E. Cump, Chambersburg, Pa.

Masonic Hall Building, Fourth and Market streets, Chester, Pa., $30,000. Architect, private plans. Owner, Simon Bruner, Chester, Pa. Changing hall and adjoining property into store, 3 stories, pine floors, metal ceilings, flush bulks, store fixtures, plumbing, tile and marble work, steam heating, electric lighting, general alterations. Contract awarded to R. H. Scroggins, Crozer Building, Chester, Pa.

Residence (alts. and add.), Merion, Pa., $10,000. Architect, private plans. Owner, name withheld. Stone and stucco, 3½ stories, add. 14x18 feet, tile roof, oak floors, stone foundations, tile work, plumbing, heating and electric extensions, carpentry. Contract awarded to William J. Gruhler, 219 East High street, Philadelphia.

Bungalow, Chambersburg, Pa., $7,500. Architect, H. G. Kilmer, Chambersburg, Pa. Owner, name withheld. Brick, 1 story, 31x46 feet, slate roof, wood floors, hot air heating. Contract awarded to Abram Thomas, Chambersburg, Pa.

New Jersey Construction News

Experimental Machine Shop, Millville, N. J. Architect, Robert E. Pollock, 1802 Chestnut street, Philadelphia. Owners, Whitall, Tatum Co., Millville, N. J. Brick, slow burning construction, 2 stories, 35x106 feet, slag roof, pine, cement and composition floors, fire doors, rolled steel sash, concrete foundations, heating and electric lighting extensions. Owners will build and will take sub-bids after January 1st.

New Jersey Contracts Awarded

Dairy Building (alts.), Atlantic City, N. J. Architect, Wm. H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, Atlantic City, N. J. Millwork, plastering, plumbing, electric work, steam heating, steel and iron work, slag roof, fire doors. Contract awarded to M. B. Markland, Guarantee Trust Building, Atlantic City, N. J.

Miscellaneous Contracts Awarded

School House, No. 76, Latrobe Park, Baltimore, Md., $465,000. Architect, Otto G. Simonson, Maryland Cas. Tower Building, Baltimore, Md. Owners, Mayor and City Council of Baltimore, Baltimore, Md. Brick, terra cotta and steel, 3 stories, 271x76 feet and 142x50 feet, slag roof, maple floors, metal lath and ceilings, dampproofing, iron work, hollow metal sash, electric lighting, steam heating, stone foundations. Bond. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.



That New Folwell "Plant"

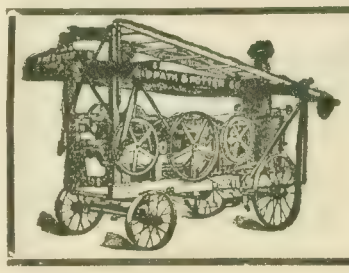
It's up at 3rd and Somerset—and, of course, it's Kuehnle painted inside and out. Owners of big plants have discovered they can't afford less than the best in paints and painting. Can you?

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Contractor and Distributor
203 Wildwood Avenue
East Lansdowne, Pa.

(Continued from Page 1036.)

rate effective about March 1, 1921, in case the carriers are successful in securing the authority of all the lines interested and also of the Interstate Commerce Commission, who must approve all reduction in rates. The carriers' tonnage on eastbound shipments has fallen to such an extent that they are actively engaged in soliciting the haul on all classes of freight."

The statement is as definitely concrete as it is interesting. The railroads may be somewhat in the attitude of the man who prefers half a loaf to no bread; in other words, they would rather take reasonable less for the lumber haul than to kill the freight (and make it take to water, as far as possible), and thus to get no haul at all, or a vastly reduced volume of business. It must be added, however, that the railroads perhaps are likely in effect to attempt for reasons to put the burden of proof on the shippers to show that the present slump in lumber shipments is due to the advanced rate and not to a concurrent slump in the lumber business itself, which is not the same. Be that as it may, the roads appear wrong when they try to put it over by making a comparison in terms, say, of wheat orapple shipments. The conditions are by no means the same except only as indicated in the mere mutations of names of products shipped and it would seem that every phase of lumber freights and shipments should be determined on its own inherent attributes and not in comparison to some other commodity to which same or similar attibutes may or may not be concomitant, depending entirely upon chance or circumstance, as the case may be.

This paper is dealing with and discussing facts and starts out with no idea merely of proving any preconceived thesis, for it has none. But it remains that while water shipments are no doubt destined to grow by leaps and bounds, at the same time the West Coast Lumbermen's Association advices are, sifinicantly, that "in three months, *since the increased freight rates became effective* (and we use italics to call special attention), this water movement has approximately equaled the Pacific-Atlantim Coast lumber shipments for the entire year of 1919." So it can be and has been called in question if a considerable portion of this might not have gone by rail if the rates had not been increased, and it can be offered in rebuttal that the possible contention that the failure of the railroads to get a haul not because of the high rate, but because of a lack of business thus certainly tends to fall down to the ground. Because there is business moving, as the growing water shipments show, regardless of whether normally it might or would have gone partly by rail if the rates had not been advanced. And the string of idle cars, therefore, all along the Columbia River signify little or nothing as far as lumber activities are concerned. So on the face of it, some one might conclude that the rail routes are in to lose some of the business anyway, and that the movement is apt to be swifter if the spread or disparity between rail and water rates is large enough greatly to handicap Pacific wood goods by rail in competition with others.

The whole certainly constitutes one of the large lumber questions of the hour.

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TEXT OF SENATE COMMITTEE'S PRELIMINARY REPORT

Housing Shortage Is Serious Even in Smaller Cities — Interstate Commerce Commission's Orders Have Encouraged Profiteering—Coal Profiteering, Unchecked by Department of Justice, Is a National Disgrace—Labor and Trade Schools—Finance and Taxation—Encouraging Home Ownership—As to Public Health and Morals.

The committee authorized by Senate Resolution No. 350, of April 17, 1920, was directed to inquire into the general building situation and to report to the Senate on or before December 1, 1920, such measure as may be deemed necessary to stimulate and foster the development of construction work in all its forms.

The committee has thus far devoted its attention to housing rather than industrial construction. Information as to conditions existing throughout the country has been obtained through correspondence, questionnaires, and field investigations. Information as to conditions existing throughout England and France has been obtained through field investigations by experts. The committee has held hearings in the principal cities of the United States, excepting the far West.

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

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4740 MARKET STREET - PHILADELPHIA-PA.
SLATE and TILE CARRIED IN STOCK
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A Housing Shortage

There is no doubt that there exists a serious shortage of housing, not only in the great cities, but in the smaller cities as well, even in the far West and South, and that this shortage has a material effect upon industrial growth and upon public health and morals. The total housing construction during the last four years is hardly equal to that of a normal year. Rentals have increased from 25 to 150 per cent. Four years ago a house for a workingman cost on an average about $3,000. Today the same house costs $6,000. Houses produced at such cost are beyond the purchasing power of the workingmen of this country. To buy such a house or to rent it, a workingman would have to pay the equivalent of a rent of at least $60 a month instead of the $30 a month that he is accustomed to paying. Industrial development, together with increasing immigration, will add to the present urban congestion.

Interference by Federal Government

The building industry was disrupted during the war by Federal intervention, and has been unable to get back on its feet since the armistice because of transportation, fuel, and labor difficulties, because of the diversion of credit to commercial purposes, and because of handicaps of taxation. The industry would naturally have revived, because of the great need of construction, if it had enjoyed pre-war transportation conditions (both as to promptness of delivery and low cost), par-war fuel conditions, pre-war labor efficiency, and if investment capital had not been diverted to other channels, especially through tax-exempt securities, and had not been driven from the building industry by high income and excess profits taxes. It now seems beyond the power of private individuals, municipalities, or States to overcome the present handicaps of transportation, fuel, finance, and taxation.

Provide Facilities Rather Than Subsidies

The actions of various States in regulatory rent laws, or toward subsidy or toward participation in the housing business, promises no permanent relief. The unfortunate results of the attempts of the English Government along such lines are warnings against similar attempts in this country. The Federal Government must assume the responsibility for its war-time acts in curtailing industry as well as for its peace-time acts in diverting transportation and capital from the industry. While helpful Federal action is justified, such Federal action should be to provide facilities rather than to provide subsidies.

Costs Should Be Reduced

The committee well recognizes that building—including homes — depends upon the cost of transportation, fuel, and labor, and that by no possible artifice can buildings be produced at less than the cost of these basic elements; but the committee believes that there is yet much to be accomplished in the way of greater efficiency of labor; in the way of elimination of profiteering in coal; and in the way of transportation, through more equitable rates and through more regular deliveries.

Transportation

The freight rates on building materials were increased some 50 per cent. in June, 1918, and some 40 per cent. in August, 1920, making a total cost of freight on building materials of nearly $2.10, as compared with $1 before the war; the total for other industries being about $1.75, compared with $1 before the war. Shortly after the ap-

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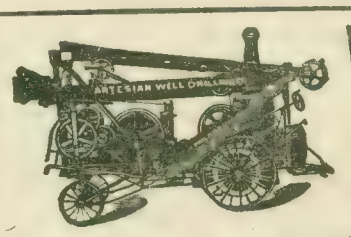


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pointment of this committee the transportation facilities of the country were allocated to coal movement through priority orders of the Interstate Commerce Commission, and the subsequent irregularities of delivery of building materials have been instrumental in bringing about the recent stagnation in the building industry. The committee believes that the issuance of exparte orders by the Interstate Commerce Commission has occurred without a full appraisal of their consequences by the Commission and that such orders hae made opportunities for profiteering and have been injurious to general industry. It is the function of the Interstate Commerce Commission to regulate railroads and not to regulate industries. The committee would direct the attention of the Senate Committee on Interstate Commerce to this matter, wih a view to amendment of the transportation act in order to check the issuance of exparte orders. Intelligent supervision of transportation matters should insure the co-ordination and full use of railways, waterways, coastwise shipping, and terminals, so vitally necessary at the present time.

Urges Reports on Fuel Production and Distribution

National development depends upon an ever-increasing supply of power. Heat is as necessary for production, in fact, for human existence, as is air or water; its use must be continued from day to day and can not be deferred or interrupted.

The nation is dependent upon coal as its chief source of heat and power, yet the production and distribution of coal is badly organized and subject to manipulation at the expense of the people.

Coal profiteering, especially as it has followed the priority orders issued by the Interstate Commerce Commission, has continued unchecked by the Department of Justice, and is a national disgrace. Coal speculation has been permitted to monopolize the transportation facilities of the country, retarding necessary construction, and increasing the basic cost of manufacture and distribution of commodities in general. It has bled the home owners, public utilities, and the industries.

The imperative necessity of continuity of supply of fuel demands the fulfillment of contractual relations in this industry more than in any other, and yet one of the primary causes for the disgraceful and disastrous conditions during the past six months has been the repudiation of contracts. An exceptional demand not only brings about reckless and unwarranted repudiation of contracts made for delivery of coal, but the substitution of inferior quality at higher prices. Indeed, coal contracts are so drawn as to be breakable in delivery, in quality, and in price.

Our investigation into the coal situation has convinced us that the private interests now in control of the production and distribution of coal, in spite of efforts by some, are actually unable to prevent a continuance or a repetition of the present deplorable situation, and that it is the duty of the Government to take reasonable and practical steps as it may to remedy the evil.

An inherent responsibility of the Government is the protection of its people. To assure the mining, transportation, and distribution of coal at fair prices is a public duty from which the Government can not escape. But your committee believes that governmental administration of the production and distribution of coal should be a last resort, as governmental activities should always be directed toward encouragement of private initiative and enterprise.

While the fulfillment of contractual relations is of first importance to the stabilization of the industry in the interest of the consumer, the producer, and labor as well, your committee believes that the Government should at all times be informed as to coal distribution and at this time recommends:

That all coal operators, wholesalers, jobbers, and retails be compelled by statute to file at regular and frequent periods with some Federal agency reports on the total tonnage produced or handled, the size and quality thereof, the amount of tonnage contracted for, the amount sold on contract and at spot sale, to whom, together with the prices made or received under such contracts or sales, and producers and distributors to make regular reports sufficient to determine their costs and profits, and the corporate interrelations or the communities of interest, if any, between companies producing and distributing coal.

With this and collateral information in the hands of Federal authorities for possible use by the Department of Justice and other Government agencies, prevailing evils as to irregularity in deliveries, inferiority of quality, profiteering in prices, and undue monopoly of transportation facilities should to a great extent be eliminated. But if no other remedy can be devised, it may be necessary to enact some form of Federal licensing to meet the situation.

Fuel thrift by the small user and fuel thrift by the large user through storage, scientific combustion, and transmission should be strongly encouraged by the Federal Government.

Labor

The misdirection and exploitation of some groups of organized labor, through grafting leadership, has been revealed in New York City and is reported in some of the other large cities. This has spread to combinations of employers, who, working together with such grafting labor leaders, have combined to force nduly high prices. These conditions are called to the attention of the Department of Justice and that department is urged to prosecute the wrongdoers whenever they are found to have violated the Federal statutes.

The efficiency of labor was decreased during the war through the allocation of young and specially trained men to the war, as well as through the cost-plus system of contracts on Government work. The cost-plus contract has been continued since the close of the war because of the uncertainties of delivery and because of the fluctuating spot prices of building materials, due to interrupted transportation. The committee recommends abandonment of cost-plus contracts by the Government, States, municipalities, and by private individuals in order that competition may be encouraged and labor efficiency stimulated.

It is most desirable that the cities and States should take immediate action to promote the establishment of trade schools for the training of apprentices for the building trades. Unless the present drift away from the building trades is reversed the country will find itself short not only of trained journeymen, but also short of competent foremen and, finally, short of practical employers as well.

The American Federation of Labor has formally declared itself in approval of home ownership rather than tenantry, and the committee has received the earnest assurance of co-operation in making good the housing shortage from the national and local leaders of the building trades sections of the Federation.

Private Initiative Should Be Encouraged

The building codes of the country have not been developed upon scientific data, but rather on compromises; they are not uniform in principle, and in many instances involve an additional cost of construction without assuring more useful or more durable buildings. The committee recommends the crea-

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tion of a Federal bureau which shall serve as a clearing house of the best knowledge and practices in construction work, to bring about greater uniformity in building codes, conservation in the use of lumber and other building materials; standardization of such parts of construction as may be standardized without interference with design; publication of fluctuations in wholesale prices and publication of available quantities of supplies of building materials; publication of methods of city planning as well as the sound methods of financing; all to the end that the best knowledge of the country may be collected and disseminated, so that private initiative may be encouraged and directed toward well-located, serviceable structures of good design, and at minimum cost.

Finance—Taxation

There has been an unprecedented demand for capital for trading purposes; much capital which has been used for non-essentials, for hoarding, and for profiteering has been able to yield interest rates and underwriting charges which the building industry has been unable to offer. The flow of investment capital away from the construction industry has been accelerated by the increase in tax-exempt securities, now amounting to some $14,000,000,000—nearly two and a half times the prewar total. The steady flow of investment capital away from the construction industry has also been accelerated by the efforts of the Federal Reserve Board to maintain as great a quantity of funds as possible in liquid condition. Long-term deposits, including savings accounts in national banks and trust companies, which have increased to some $2,000,000,000, have been chiefly used in promoting trade in consumables rather than for capital investment.

The committee recommends modification of the Federal Reserve Act so as to permit the Federal Reserve Board to direct that a portion of the long-term deposits in the member banks—at least a portion of the deposits in the savings departments—be invested in long-term securities and mortgages, in order to give greater security to the savings and to assist in providing homes for the thrifty.

The committee recommends revision of the taxation system, in order that investment in homes and in general construction may be encouraged. If such revision does not restrict the issuance of tax-exempt securities, reduce surtaxes and excess profits taxes, it should grant for a limited period tax exemption to real estate mortgages and perhaps to the profits from home building, provided such profits so exempted are reinvested in the construction of other homes.

Taxation on earnings invested in capital commodity should be lower than taxation on earnings which are spent. For the purposes of taxation, profits upon the sale of capital assets should be prorated for assessment during the years of their accrual. For the convenience of the general public, the administration of the Federal income tax system should be decentralized.

Home Ownership

The committee realizes the importance of encouraging home ownership, particularly on the part of those who are rearing families. It realizes the injustices now suffered at the hands of the so-called loan sharks, and it indorses the principle of the Home Loan Bank bill, which is designed to facilitate a wider distribution of real estate mortgages through standard bond issues based upon such mortgages and exempted from surtaxes. The committee would, however, recommend that this bill be broadened, so that institutions, other than the building and loan associations, who may desire to rediscount their home mortgages under Federal supervision, shall be enabled to participate. The relief which such a system of long-term banking promises to the commercial banks of the country on the one hand and to the home owner on the other, together with the prime security which such bonds would afford to the conservative investor, combine to make the establishment of such a banking system a most desirable national facility and a most promising substitute for governmental participation in the housing business.

Thrift

To the end that popular saving and thrift may be encouraged, the committee recommends that all Federal thrift activities be consolidated under the postal savings branch of the Post Office Department, and that the present postal savings law be amended to provide adequate interest to the depositors, payable quarterly, as well as sufficient compensation to the postmasters to call forth their energetic efforts in developing this important national facility.

Co-operation

The committee believes that unless the Federal Government continues to stimulate co-operation of those engaged in labor, transportation, finance, and fuel production with those engaged in general construction that the growing scarcity of homes may eventually force upon the Government an undesirable participation in the housing business, and it therefore seeks authority to continue its investigations and to formulate data which it gathers in support of the recommendations which it may make.

Exhibit

The American Health Association, which is composed of the commissioners of the Boards of Health of the largest cities in the United States, convened in Detroit, Mich., on November 30 at the request of this committee and submitted the following statement based upon surveys recently made in each city:

December 4, 1920.

Hon. William M. Calder,
Senate Committee on Reconstruction,
29 West Thirty-ninth Street, New York City.

My Dear Senator Calder: At the request of the Senate Committee on Reconstruction, I called together the health commissioners of this country from cities having a population of 200,000 or more. We met in Detroit on November 30 and remained in session for two days.

Reports were received from a considerable number of the cities of this size, and the representatives discussed the housing situation very seriously. It was rather remarkable that there was unanimity of sentiment regarding the problem. The fruit of our labors is shown by a formal statement which was unanimously passed by the conference.

I was directed to transmit our conclusions to your committee and to state that the health commissioners stand ready to support the Senate committee in their campaign for conditions which will make it possible to build houses in the cities of the United States. I can not speak too strongly of our conviction that the present housing situation is a real menace to the public health of this country.

Here is the formal statement:

"The housing survey undertaken by the health authorities of American cities of 200,000 persons or more has been completed. Several cities have submitted their information, and these reports ho in common certain outstanding features

"1. In every city there is abnorma overcrowding. From 20 to 30 per cen of the population of the cities studied thus affected.

"2. These surveys show an ave diminution of 80 per cent. in the nc

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volume of new buildings for residental purposes. This condition has continued for three years.

"3. As a result of the abnormal overcrowding, thousands of families are forced into insanitary and dangerous quarters. Health authorities are powerless because it is impossible to vacate such premises under present conditions. This usual legal remedy is useless to cope with the situation. It can not be used because there are no other and better places to which such families can move.

"4. Overcrowding means close contact, and has resulted in a marked increase in the infant death rate. The relation of bad housing to child health is startling. Infant morality is 50 per cent. higher in districts where there is the greatest overcrowding.

"5. Overcrowding has propagated and spread tuberculosis. This disease is at least twice as prevalent in overcrowded quarters as in areas of normal housing. Our records show that 80 per cent. of the tuberculosis patients are obliged to live at home. Overcrowding makes it impossible to segregate the patient and thus to protect other members of the family.

"6. All communicable diseases, especially those affecting the respiratory tract, are rapidly spread by overcrowding. Influenza and pneumonia are conspicuous examples of this evil. It is needless to mention the difficulty of controlling communicable diseases in the face of overcrowding, because of the impossibility of maintaining quarantine or isolation.

"7. Overcrowding bears an important relationship to the social diseases. This is evidenced by the undue prevalence of venereal diseases in communities where this situation is most acute. Lodgers are intermingled with the family, with all the obvious evils of such social arrangement.

"8. Living under the strain of unusual and insanitary conditions increases mental and moral degeneracy. The lack of privacy is conducive to physical and moral suffering, and the lack of comfort so necessary to long life and happiness.

"9. It is the sense of this gathering that the ideal housing conditions to meet health, comfort, good morals, and good citizenship demand that every American family occupy a single dwelling. In communities where this is not feasible, single separate quarters or apartments, well lighted and well ventilated, must be placed within the reach of the poorest of our citizens.

"10. This survey shows not only overcrowding and very limited building operations, but also a conspicuous absence of co-ordination of effort in reaching a solution. Efforts should be made to acquaint the public with the urgency of the housing danger. We must earnestly petition the Senate committee to take cognizance of, and to give publicity to the lamentable situation which is undermining the public health, the public morals, and the social stability of the Nation.

"11. It is imperative that your committee shall give attention to the influx of immigrants. Thousands of new arrivals have been brought into communities totally unable at the present time to decently house their present population. Europe is overrun with infectious diseases. Typhus fever, bubonic plague, cholera, smallpox, and various intestinal disorders threaten America. Immigration bears an important relationship to the entrance into our country of these diseases, and with the present housing conditions, the danger is vastly greater.

"12. The entire housing problem is so urgent and its danger so imminent that decisive and immediate action is imperative. We beg of you to lose no time in finding a remedy for the conditions that threaten the lives of our people and the stability of our Government."

Respectfully,
ROYAL S. COPELAND, M. D.,
Commissioner.

* * *

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The durability of wood as a building material is strikingly emphasized in the old Quaker meeting house at Easton, Maryland, built in 1682-4 and probably the oldest frame building in the country without additions or alterations from the original structure. Its frame, inside woodwork and some of the weatherboarding is the same as when built in the days when William Penn, who visited the building, was laying out the city of Philadelphia. The structure is sixty feet by forty-four and is made from white oak, white pine and cypress from the Maryland forests.

The church is still a place of worship and has been visited and attended by many notable persons.

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The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

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Cyclone Fence Co.....Stock Exchange Bldg., Phila.

SAND.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
France, David, Co. .....Tasker St. Wharf, Phila.
Lotz's, F. C., Sons.American and Dauphin Sts., Phila.
Sidley Silica Sand Co. .....1723 Walnut St., Phila.

SCREENS.
Botts, E. G. .....5827 Spruce St., Phila.

SHEETROCK (Wall Board)
Tague, Jas. E., & Co..10th and Columbia Ave., Phila.

SLATE.
Dietz, C. A. .....4740 Market St., Phila.
Emack Co., John D. .....Otis Bldg., Phila.

STEAM SPECIALTIES.
Apeldorn & Beatty Co.....155 N. 9th St., Phila.

SOUNDINGS.
Artesian Well Drilling Co., Real Estate Trust Bldg., Phila
Ridpath & Potter Co.....Bourse Bldg., Phila.

STRUCTURAL STEEL.
Lederle, Robt. B. .....Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.

STUCCO.
Daniel C. Sinclair.....East Lansdowne, P

SURETY BONDS.
Beidler & Bookmeyer ..... 424 Walnut St., Ph
Herman Hoopes, Inc..Real Estate Trust Bldg., Ph
Stokes, Packard, Haughton & Smith, 434 Walnut St., Phila.
Wagner-Taylor-Edson Co., Inc.422 Walnut St., Phila.

TARPAULINS.
Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

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Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

TERRA COTTA (Architectural).
Ketcham, O. W. .....Builders' Exchange, Phila.

TERRA COTTA SEWER PIPE.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

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French, Samuel H., & Co.4th & Callowhill Sts., Phila.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

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Robbins, Chas. H.....1209 Arch St., Phila.
Warren-Knight Co.....136 N. 12th St., Phila.
Weber, F., & Co.....1125 Chestnut St., Phila.

VACUUM CLEANERS.
Buchanan & Co., J. F. .....1719 Chestnut St., Phila.
Davis, Garfield W.....18 S. 7th St., Phila.

WAGON COVERS.
Barnett Canvas Goods & Bag Co.41 N. 11th St., Phila.

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WALL COPING.
Clausen, Wm. H.....27th and Diamond Sts., Phila.

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Buchanan & Co., J. F. .....1719 Chestnut St., Phila.

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Borden Stove Co.....1311 Arch St., Phila.
Davis, Garfield W. .....34 S. 17th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

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Southern, Wm. B., N. W. Cor. 12th and Spruce Sts., Phila.

WATERPROOFING.
Barrett Co., The.....New York and Philadelphia
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.

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Harrison, Mertz & Emlen, Inc., Commercial Trust Bldg., Phila.

WEATHER STRIP (Metal).
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WHITEWASHING.
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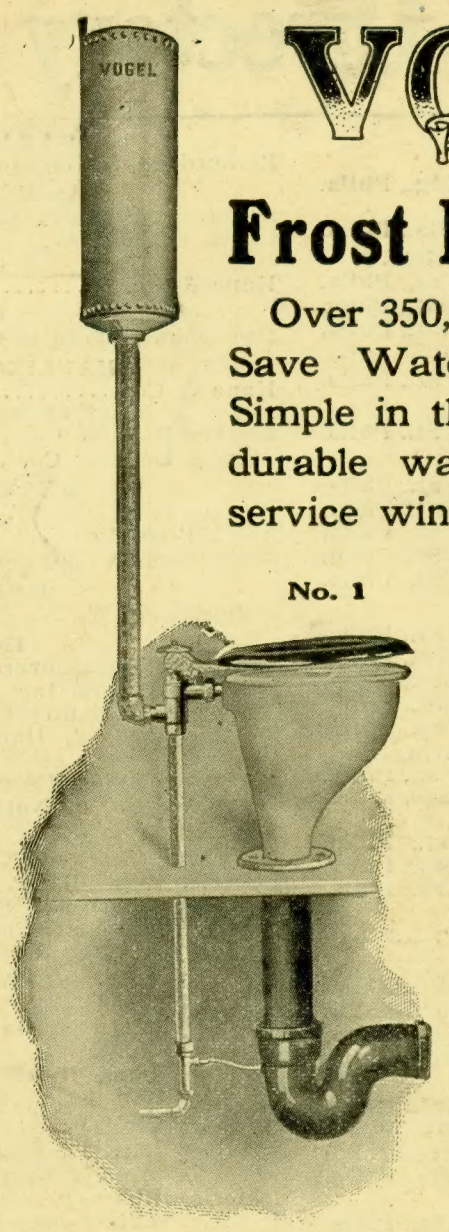
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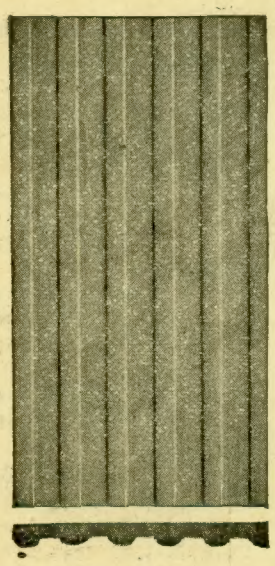
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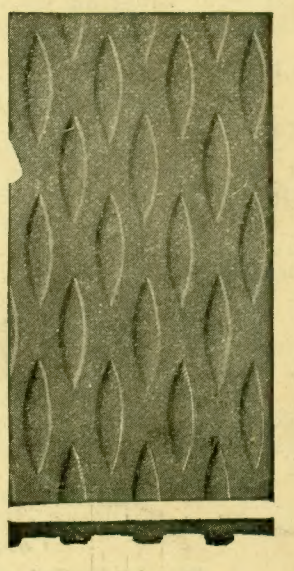
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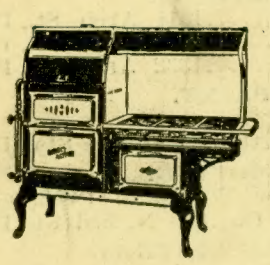
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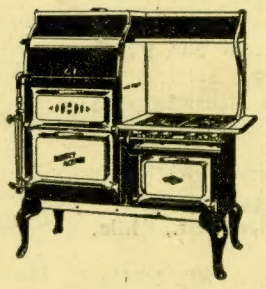
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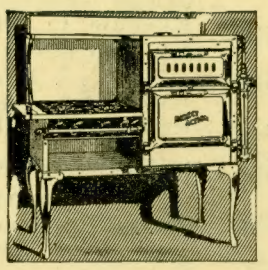


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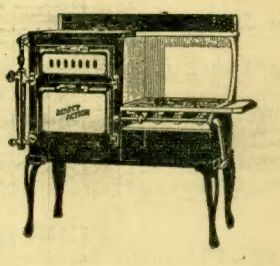
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